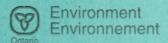
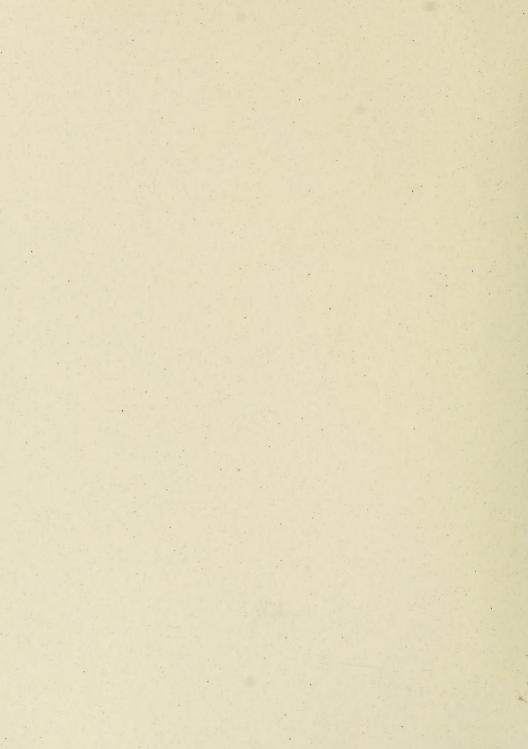
2033

DRINKING WATER SURVEILLANCE PROGRAM

DELHI WATER SUPPLY SYSTEM

ANNUAL REPORT 1990





DELHI WATER SUPPLY SYSTEM

DRINKING WATER SURVEILLANCE PROGRAM

ANNUAL REPORT 1990

AUGUST 1992

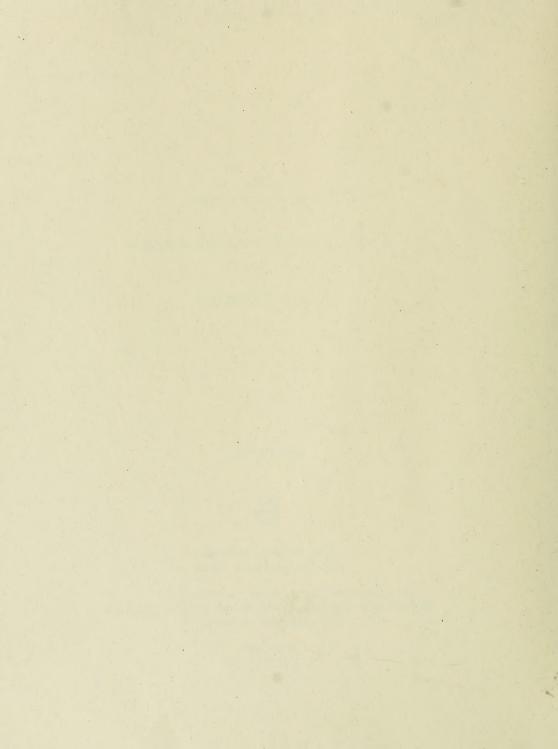


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EXECUTIVE SUMMARY

DRINKING WATER SURVEILLANCE PROGRAM

DELHI WATER SUPPLY SYSTEM 1990 ANNUAL REPORT

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1990, 76 systems were being monitored.

The Delhi water supply system has two sources of raw water, a conventional water treatment plant which treats water from the North Creek/Lehman Dam and a spring supply. The plant treatment process consists of coagulation, flocculation, sedimentation, filtration using pressure filters, fluoridation and disinfection. This plant has a rated capacity of 2.5 x 1000 $\rm m^3/day$. The Delhi Spring source is an artesian spring which feeds a pond and flows into two concrete settling tanks where the water is disinfected, fluoridated and pumped into the distribution. The Delhi spring facility supplies about 25% of the total demand of the system. The Delhi water supply system serves a population of approximately 4,100.

Water at the treatment plant, the spring and two locations in the distribution system was sampled for the presence of approximately 180 parameters. Parameters were divided into the following groups: bacteriological, inorganic and physical (laboratory chemistry, field chemistry and metals), and organic (chloroaromatics, chlorophenols, pesticides and PCB, phenolics, polyaromatic hydrocarbons, specific pesticides and volatiles). Samples were analyzed for specific pesticides and chlorophenols twice a year in the spring and fall.

Table A (one for each source) is a summary of all results by group.

No known health related guidelines were exceeded.

The Delhi water treatment plant, for the sample year 1990, produced "adequate" quality water and this was maintained in the distribution system.

The source of trichloroethylene in the spring supply, is being investigated and continued monitoring of the supply is recommended.

DRINKING WATER SURVEILLANCE PROGRAM DELHI UTP

SUMMARY TABLE BY SCAN

| | : | | | | | | | | | | | | |
|---|----------------------------------|-----------------|-----------------|-----------------|--------|-----------------|---------------|-----|------------------|-------------|---------------------|-----------|------|
| ABLE | SITIVE XPOSITIVE | 8 | 16 | 91 | 41 | 0 | • | • | 0 | • | 0 | = | |
| THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE THAT NO SAMPLE WAS TAKEN | SITE 1 TESTS POSITIVE **POSITIVE | 9 | 88 | 594 | 161 | 0 | • | | 0 | • | 0 | 59 | 558 |
| ON AND | SITE 1 TESTS | 0 | 2 | 323 | 391 | 112 | • | • | 170 | | 60 | 261 | 1344 |
| OF DETECTI | TREATED TESTS POSITIVE XPOSITIVE | 22 | 100 | 83 | 37 | 0 | 0 | 0 | 0 | 20 | 0 | 10 | |
| CAL LIMIT | POSITIVE | 7 | 24 | 183 | 89 | 0 | 0 | 0 | 0 | 2 | 0 | 31 | 366 |
| TATISTI MPLE WA | FFI | 9 | 24 | 219 | 240 | 140 | 12 | 168 | 345 | 9 | 61 | 290 | 1546 |
| SULT IS GREATER THAN THE STATISTICAL LIM A '.' INDICATES THAT NO SAMPLE WAS TAKEN STE | POSITIVE XPOSITIVE | *8 | 100 | 88 | 17 | 0 | 0 | 0 | 0 | 10 | 0 | - | |
| S GREATER INDICATES | | 20 | 81 | 195 | 8 | 0 | 0 | 0 | 0 | - | 0 | 7 | 337 |
| THE RESULT I | RAW | 30 | 18 | 220 | 240 | 140 | 12 | 168 | 342 | 10 | 53 | 261 | 1494 |
| POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER A '.' INDICATES | SCAN | BACTERIOLOGICAL | CHEMISTRY (FLD) | CHEMISTRY (LAB) | METALS | CHLOROAROMATICS | CHLOROPHENOLS | РАН | PESTICIDES & PCB | PHENOL I CS | SPECIFIC PESTICIDES | VOLATILES | |
| POSITI | | | | | | | | | | | | | |

TOTAL

TABLE A
DRINKING WATER SURVEILLANCE PROGRAM DELHI SPRING SUPPLY

SUMMARY TABLE BY SCAN

A POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE
A '.' INDICATES THAT NO SAMPLE WAS TAKEN

| | SCAN | SITE | | %POSITIVE | TREATE | D | %POSITIVE | SITE 1 TESTS | | %POSITIVE |
|-------|---------------------|------|-----|-----------|--------|------|-----------|-----------------|-----|-----------|
| | BACTERIOLOGICAL | 30 | 23 | 76 | 10 | 6 | 60 | 10 | 5 | 50 |
| | CHEMISTRY (FLD) | 18 | 18 | 100 | 44 | 44 | 100 | 95 | 88 | 92 |
| | CHEMISTRY (LAB) | 220 | 174 | 79 | 220 | 170 | 77 | 361 | 319 | 88 |
| | METALS | 240 | 70 | 29 | 240 | . 75 | 31 | 437 | 206 | 47 |
| | CHLOROARONATICS | 140 | 0 | 0 | 140 | o | 0 | 140 | 0 | 0 |
| | CHLOROPHENOLS | 12 | 0 | 0 | 12 | 0 | 0 | | | |
| | PAH | 168 | 0 | 0 | 168 | 0 | 0 | 17 | 0 | 0 |
| | PESTICIDES & PCB | 342 | 0 | 0 | 329 | 0 | 0 | 212 | 0 | 0 |
| | PHENOLICS | 10 | 1 | 10 | 10 | 0 | 0 | | | |
| | SPECIFIC PESTICIDES | 61 | 0 | 0 | 61 | 0 | 0 | 10 | 0 | 0 |
| | VOLATILES | 290 | 15 | 5 | 290 | 52 | 17 | 261 | 36 | 13 |
| TOTAL | | 1531 | 301 | | 1524 | 347 | | 1543 | 654 | |
| | | | | | | | | | | |

DRINKING WATER SURVEILLANCE PROGRAM

DELHI SUPPLY SYSTEM 1990 ANNUAL REPORT

INTRODUCTION

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1990, 76 systems were being monitored.

Appendix A has a full description of the DWSP.

The DWSP was initiated for the Delhi water plant in February of 1990. This is the first DWSP annual report.

PLANT DESCRIPTION

The Delhi water supply system is a combination of a spring supply and a conventional water treatment plant which treats water from the North Creek/Lehman Dam. The plant treatment process consists of coagulation, flocculation, sedimentation, filtration using pressure filters, fluoridation and disinfection. This plant has a rated capacity of 2.5 x 1000 m³/day. The Delhi Spring source is an artesian spring which feeds a pond and flows into two concrete settling tanks where the water is disinfected, fluoridated and pumped into the distribution system. The Delhi spring facility supplies about 25% of the total demand of the system. The Delhi water supply system serves a population of approximately 4,100.

The sample day flows and chemical dosages were not regularly reported.

General plant information is presented in Table 1 and a schematic of plant processes, chemical addition points and sampling locations in Figure 1.

SAMPLING AND ANALYSES

Sample lines in the plant and at the spring were flushed prior to sampling to ensure that the water obtained was indicative of its origin and not residual water standing in the sample line.

At all distribution system locations two types of samples were obtained, a standing and a free flow. The standing sample consisted of water that had been in the household plumbing and service connection for a minimum of six hours. These samples were used to

make an assessment of the change in the levels of inorganic compounds and metals, due to leaching from, or deposition on, the plumbing system. The only analyses carried out on the standing samples therefore, were General Chemistry and Metals. The free flow sample represented fresh water from the distribution main, since the sample tap was flushed for five minutes prior to sampling.

Attempts were made to capture the same block of water at each sampling point by taking the retention time into consideration. Retention time was calculated by dividing the volume of water between two sampling points by sample day flow. For example, if it was determined that retention time within the plant was five hours, then there would be a five hour interval between the raw and treated sampling. Similarly, if it was estimated that it took approximately one day for the water to travel from the plant to the distribution system site, this site would be sampled one day after the treated water from the plant.

Stringent DWSP sampling protocols were followed to ensure that all samples were taken in a uniform manner (see Appendix B).

Plant operating personnel routinely analyze parameters for process control (Table 2).

Water at the plant, at the spring and at two locations in the distribution system was sampled for the presence of approximately 180 parameters. Parameters were divided into the following groups: bacteriological, inorganic and physical (laboratory chemistry, field chemistry and metals), and organic (chloroaromatics, chlorophenols, pesticides and PCB, phenolics, polyaromatic hydrocarbons, specific pesticides and volatiles). Samples were analyzed for specific pesticides and chlorophenols twice a year in the spring and fall. Laboratory analyses were conducted at the Ministry of the Environment facilities in Rexdale, Ontario.

RESULTS

Field measurements were recorded on the day of sampling and were entered onto the DWSP database as submitted by plant personnel.

Table 3 contains information on delay time between raw and treated water sampling, flow rate, and treatment chemical dosages.

Table 4 is a summary break-down of the number of water samples analyzed by parameter and by water type. The number of times that a positive or trace result was detected is also reported.

Positive denotes that the result is greater than the statistical limit of detection established by the Ministry of the Environment laboratory staff and is quantifiable. Trace (<T) denotes that the level measured is greater than the lowest value detectable by the

method but lies so close to the detection limit that it cannot be confidently quantified.

Table 5 presents the results for parameters detected on at least one occasion.

Table 6 lists all parameters analyzed in the DWSP.

Associated guidelines and detection limits are also supplied on Tables 5 and 6. Parameters are listed alphabetically within each scan.

DISCUSSION

GENERAL

Water quality was judged by comparison with the Ontario Drinking Water Objectives publication (ODWOs). When an Ontario Drinking Water Objective (ODWO) was not available, guidelines/limits from other agencies were used. These guidelines were obtained from the Parameter Listing System database.

IN THIS REPORT, DISCUSSION IS LIMITED TO:

- THE TREATED AND DISTRIBUTED WATER:
- ONLY THOSE PARAMETERS WITH CONCENTRATIONS ABOVE GUIDELINE VALUES; AND
- POSITIVE ORGANIC PARAMETERS DETECTED.

BACTERIOLOGICAL

Guidelines for bacteriological sampling and testing of a supply are developed to maintain a proper supervision of its bacteriological quality. Routine monitoring programs usually require that multiple samples be collected in a given system. Full interpretation of bacteriological quality cannot be made on the basis of single samples.

Standard plate count is a test used to supplement routine analysis for coliform bacteria. The limit for standard plate count (at 35°C after 48 hours) in the ODWOs is 500 counts/mL (based on a geometric mean of 5 or more samples). DWSP bacteriological analysis of treated and distributed water was limited to standard plate count, which may indicate some deterioration in water quality if the guideline of 500 counts/mL is exceeded.

Standard plate count (membrane filtration) exceeded the ODWO Maximum Desirable Concentration of 500 counts/mL in 5 of 10 plant treated water samples, 4 of 9 spring treated water samples and 2 of 17 distribution water samples with maximum reported values of 2.400 counts/mL.

INORGANIC & PHYSICAL

CHEMISTRY (FIELD)

It is desirable that the temperature of drinking water be less than 15°C. The palatability of water is enhanced by its coolness. A temperature below 15°C will tend to reduce the growth of nuisance organisms and hence minimize associated taste, colour, odour and corrosion problems. The temperature of the delivered water may increase in the distribution system due to the warming effect of the soil in late summer and fall and/or as a result of higher temperatures in the source water.

Field temperature exceeded the ODWO Maximum Desirable Concentration of 15° C in 8 of 36 treated and distributed water samples with a maximum reported value of 17.0° C.

CHEMISTRY (LAB)

Calcium exceeded the European Economic Community (EEC) Aesthetic Guideline Level of 100 mg/L in 1 of 9 distribution water samples with a reported value of 102.1 mg/L.

Colour in drinking water may be due to the presence of natural or synthetic substances as well as certain metallic ions.

Colour exceeded the ODWO Maximum Desirable Concentration of 5 HZU in 8 of 36 treated and distributed water samples with a maximum reported value of 8.0 HZU.

Elevated conductivity is often associated with high hardness levels.

Conductivity exceeded the EEC Aesthetic Guideline Level of 400 umho/cm in all 39 treated and distributed water samples with a maximum reported value of 724.0 umho/cm.

The ODWos indicate that a hardness level of between 80 and 100 mg/L as calcium carbonate for domestic waters provides an acceptable balance between corrosion and encrustation. Water supplies with a hardness greater than 200 mg/L are considered poor and would possess a tendency to form scale deposits and result in excessive soap consumption.

Hardness exceeded the ODWO Aesthetic or Recommended Operational Guideline of 80-100 mg/L in all 39 treated and distributed water samples with a maximum reported value of 324.0 mg/L.

PH exceeded the ODWO Aesthetic or Recommended Operational Guideline of 6.5-8.5 pH units in 2 of 39 treated and distributed water samples with a maximum reported value of 8.54 pH units.

Turbidity in water is caused by the presence of suspended matter such as clay, silt, colloidal particles, plankton and other microscopic organisms. The most important potential health effect of turbidity is its interference with disinfection in the treatment plant and the maintenance of a chlorine residual. The ODWO Maximum Acceptable Concentration for turbidity is 1.0 Formazin Turbidity Units (FTU).

The laboratory turbidity exceeded Maximum Acceptable Concentration in 4 of 10 plant treated water samples with a maximum reported value of 2.4 FTU, but these values were not confirmed by the corresponding field turbidity results which were considered to be more reliable.

METALS

At present, there is no evidence that aluminum is physiologically harmful and no health limit for drinking water has been specified. The measure of aluminum in treated water is important to indicate the efficiency of the treatment process. The ODWOs indicate that a useful guideline is to maintain a residual below 100 ug/L as aluminum in the water leaving the plant, to avoid problems in the distribution system.

Aluminum exceeded the ODWO Aesthetic or Recommended Operational Guideline of 100 ug/L in 9 of 10 plant treated water samples with a maximum reported value of 530.0 ug/L and 9 of 19 distributed water samples with a maximum reported value of 350.0 ug/L.

Manganese, in high concentrations, can contribute to laundry staining and undesirable tastes.

ORGANIC

CHLOROAROMATICS

The results of the chloroaromatic scan showed that one parameter was detected at a trace level in one plant treated water sample.

CHLOROPHENOLS

The results of the chlorophenol scan showed that none were detected.

POLYAROMATIC HYDROCARBONS (PAH)

The results of the PAH scan showed that none were detected.

PESTICIDES & PCB

The results of the PCB scan showed that none were detected.

The results of the regular pesticide scan showed that none were detected above trace levels.

PHENOLICS

Phenolic compounds are present in the aquatic environment as a result of natural and/or industrial processes. The ODWOs recommend, as an operational guideline, that phenolic substances in drinking water not exceed 2.0 ug/L. This limit has been set primarily to prevent undesirable taste and odours, particularly in chlorinated water. No results exceeded the guideline.

SPECIFIC PESTICIDES

The results of the specific pesticides scan showed that none were detected.

VOLATILES

1,1,1-Trichloroethane was detected at positive levels in 2 of 10 spring treated water samples and 2 of 18 distribution samples with a maximum reported value of 0.22 ug/L. All raw and treated water samples from the spring contained trace or positive levels of 1,1,1-trichloroethane. The United States Environmental Protection Agency has a Maximum Contaminant Level of 200 ug/L.

Trichloroethylene was found at positive levels in spring raw and treated water samples ranging from 13.3 ug/L to 23.9 ug/L. Trichloroethylene was also detected at positive levels in 4 of 18 distributed water samples with a maximum reported value of 21.9 ug/L. These were below the ODWO Maximum Acceptable Concentration of 50 ug/L. The Ministry of the Environment and the Municipality are actively investigating the possible source of the trichloroethylene contamination.

Other volatile organic parameters were detected occasionally at trace levels in the spring supply.

The detection of benzene, ethylbenzene, toluene and xylenes at low, trace levels may be a laboratory artifact derived from the analytical methodology.

Trihalomethanes (THMs) are produced during the water treatment process and will always occur in surface waters. THMs are comprised of chloroform, chlorodibromomethane and dichlorobromomethane; bromoform occurs occasionally. Results are reported for the individual compounds as well as for total THMs. Only total THMs results are discussed.

Total THMs were found at positive levels in all plant treated water samples to a maximum of 105.6 ug/L and in all spring treated water samples to a maximum 42.9 ug/L. THMs were detected in all 16 distributed water samples and ranged from 25.0 ug/L to 116.7 ug/L. This was below the ODWO Maximum Acceptable Concentration of 350 ug/L.

THMs were detected at trace levels in 8 of 10 raw water samples at the spring supply indicating that some chlorine is backmixing close to the raw water sample location.

CONCLUSIONS

The sample locations in the distribution were influenced to a greater or lessor extent by both sources of supply, probably due to variations in flow patterns.

The Delhi water treatment plant, for the sample year 1990, produced "acceptable" quality water and this was maintained in the distribution system.

No known health related guidelines were exceeded.

The source of trichloroethylene, in the spring supply is being investigated and continued monitoring of the supply is recommended.

TABLE 1

DRINKING WATER SURVEILLANCE PROGRAM

PLANT GENERAL REPORT

WORKS #: 220000415
PLANT NAME: DELHI WTP

DISTRICT:

HAMILTON WEST CENTRAL REGION:

DISTRICT OFFICER : J. VOGT

UTM #: 175398704744300

PLANT SUPERINTENDENT: JAMES WALKER

ADDRESS:

WILLIAM STREET DELHI, ONTARIO

N4B

(519- 582-2490)

AUTHORITY:

MUNICIPALITY: HALDIMAND-NORFOLK REGION

MUNICIPAL

PLANT INFORMATION

.278 (X 1000 M3)

PLANT VOLUME: DESIGN CAPACITY: RATED CAPACITY:

4.543 (X 1000 M3/DAY)

2.473 (X 1000 M3/DAY)

MUNICIPALITY

POPULATION

DELHI

4,100

Page 9

TABLE 3
DRINKING WATER SURVEILLANCE PROGRAM DELHI WTP SAMPLE DAY COMDITIONS FOR 1990

| POST CHLORINATION | CHLORINE | 00 | 1 02 | 1 03 | 1 78 | 27. | 1 63 | 1 30 | 1 22 | 1 22 | 5 |
|--|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| S | | | | | | | | | | | |
| FLUORIDATION | HYDROFLUOSILICIC ACID | 1.36 | | | 1.14 | 1.24 | 1.26 | 12. | 1.25 | 25 | 26 |
| PRE CHLORINATION COAGULATION | POLY ALUMINUM CHLORIDE | 4,44 | 3.24 | 4.74 | 5.45 | 76-9 | 7.36 | 6.55 | 8.37 | 9,10 | 7.52 |
| TREATMENT CHEMICAL PRE CHLORINATION | CHLORINE | 2.38 | 1.58 | 2.14 | 3,13 | 3.53 | 3.20 | 3.06 | 3.68 | 3.68 | 3.27 |
| | FLOW (1000M3) | 000 | 000 | 000 | 000 | 000 | 000° | 1.464 | 000° | 000 | 000 |
| | DELAY * TIME(HRS) | .50 | 00. | 00. | 00. | 00. | .50 | 00° | 00. | 00. | 00. |
| | JATE | 4AR 07 | 4PR 03 | 4AY 07 | 10N 04 | JUL 04 | 4UG 07 | SEP 05 | OCT 02 | 40V 06 | DEC 04 |

* THE DELAY TIME BETWEEN THE RAW AND TREATED WATER SAMPLING, SHOULD ESTIMATE THE RETENTION TIME.

TABLE 3
DRINKING WATER SURVEILLANCE PROGRAM DELHI SPRING SUPPLY SAMPLE DAY CONDITIONS FOR 1990

TREATMENT CHEMICAL DOSAGE MG/L PRE CHLORINATION FLUORIDATION

| DATE | DELAY * TIME(HRS) | FLOW (1000H3) | CHLORINE | HYDROFLUOSILICIC ACID |
|--------------------------------------|----------------------|----------------------|------------------------------|------------------------------|
| MAY 07 JUN 05 JUL 04 AUG 07 | .00 | .000 .000 .000 | 1.43 1.62 1.84 1.63 | 1.55 1.54 .89 |
| SEP 05 OCT 02 NOV 06 DEC 04 | .00 .00 .00 | .419 .000 .000 | 2.04 2.13 1.96 1.63 | 1.59 1.96 1.79 1.37 |

^{*} THE DELAY TIME BETWEEN THE RAW AND TREATED WATER SAMPLING, SHOULD ESTIMATE THE RETENTION TIME.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM DELHI WTP SUMMARY TABLE OF RESULTS (1990)

| | RAW | | | TREATE | ED | | SITE 1 | | |
|---|---------------|----------|----|----------|----------|----|----------|----------|--------|
| SCAN PARAMETER | | | | | POSITIVE | | | | |
| BACTERIOLOGICAL | | | | | | | | | |
| FECAL COLIFORM MF | | 8 | | 10 | ż | ò | ÷ | | ö |
| STANDRD PLATE CNT MF TOTAL COLIFORM MF T COLIFORM BCKGRD MF | | 4 8 | 0 | | | • | : | • | : |
| | | | | | | | | | |
| *TOTAL GROUP BACTERIO | LOGICAL 30 | 20 | 0 | 10 | 7 | .0 | 9 | 6 | 0 |
| CHEMISTRY (FLD) | | | | | | | | | |
| FLD CHLORINE (COMB) FLD CHLORINE FREE | | | | 9 | 9 | | 14 | 12 14 | 0 |
| FLD CHLORINE (TOTAL) | | 9 | | 9 | 9 | 0 | 14 | 14 | 0 |
| FLD TEMPERATURE FLD TURBIDITY | 9 | 9 | | 9 | 9 | 0 | 14 | 14 | 0 |
| *TOTAL SCAN CHEMISTRY | (FLD) | 18 | 0 | 54 | 54 | 0 | 70 | 68 | 0 |
| ••••• | | | | | | | | | |
| CHEMISTRY (LAB) | | | | | | | | | |
| ALKALINITY | 10 10 | 10 10 | 0 | 10 10 | 10 10 | 0 | 17 17 | 17 17 | 0 |
| CYANIDE CHLORIDE | 10 10 | 10 | 0 | 10 | 10 | 0 | 17 | 17 | ó |
| CONDUCTIVITY | 10 10 | 9 10 | 0 | 10 10 | 10 10 | 0 | 17 17 | 13 17 | 0 |
| DISS ORG CARBON FLUORIDE | 10 | 10 10 | 0 | 10 | 10 | 0 | 17 17 | 17 17 | 0 |
| IONCAL | 10 10 | 10 10 | 0 | 10 10 | 10 | 0 | 17 17 | 17 17 | 0 |
| HAGNESIUM | 10 10 | 10 10 | 0 | 10 10 | 10 | 0 | 17 17 | 17 17 | 0 |
| AMMONIUM TOTAL | 10 10 | 10 5 | | 10 10 | 10 | 3 | 17 17 | 17 | 0 5 |
| NITRITE TOTAL NITRATES | 10 | 10 | Ö | 10 10 | 10 | 0 | 17 17 | 7 17 | 8 |
| PH | 10 | 10 10 | 0 | 10 | 10 | 0 | 17 17 | 17 17 | 0 |
| PHOSPHORUS FIL REACT PHOSPHORUS TOTAL | 10 10 | 5 7 | 3 | 10 | 4 | 6 | 17 | 17 | |
| SULPHATE TURBIDITY | 10 | 10 10 | 0 | 10 10 | 10 | 0 | 17 | 16 | 1 |
| *TOTAL SCAN CHEMISTRY | (LAB) 220 | 195 | 13 | 219 | 183 | 17 | 323 | 294 | 18 |
| | | | | | | | | | |

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM DELHI WTP
SUMMARY TABLE OF RESULTS (1990)

| SCAN | RAW | | | TREATE | U | | SITE 1 | | |
|--|----------|----------|------|--------|----------|-------|----------|----------|-------|
| PARAMETER | TOTAL PO | SITIVE T | RACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACI |
| IETALS | | | | | | | | | |
| SILVER | 10 | 0 | 0 | 10 | 0 | 0 | 17 | 0 | |
| ALUHINUH | 10 | 10 | 0 | 10 | 10 | 0 | 17 | 17 | |
| ARSENIC | 10 | 0 | 10 | 10 | 0 | | 17 | 0 17 | |
| BARIUH | 10 | 10 | 0 | 10 | 10 | | 17 17 | 13 | |
| BORON | 10 | 6 | 4 | 10 | 0 | | 17 | 12 | |
| BERYLLIUM | 10 | 0 | 0 | 10 | 0 | | 17 | 0 | |
| CADHIUN COBALT | 10 10 | 0 | 0 | 10 | 0 | - | | 0 | |
| CHRONIUN | 10 | 0 | 6 | 10 | 0 | | | 2 | |
| COPPER | 10 | 1 | 9 | 10 | 0 | | 17 | 8 | |
| IRON | 10 | 9 | 0 | 10 | 2 | | 17 | 5 | |
| MERCURY | 10 | Ó | 2 | 10 | 0 | | | | |
| MANGANESE | 10 | 10 | 0 | 10 | 10 | | 17 | 17 | |
| HOLYBDENUM | 10 | 9 | 1 | 10 | . 9 | | 17 | 11 | |
| NICKEL | 10 | 1 | 3 | 10 | 1 | | 17 | 2 | - |
| LEAD | 10 | 1 | 9 | 10 | 3 | 6 | 17 | 4 | 10 |
| ANTIHONY | 10 | Ö | 10 | 10 | 0 | 10 | 17 | . 0 | |
| SELENIUM | 10 | 0 | 2 | 10 | 0 | | 17 | . 0 | |
| STRONTIUM | 10 | 10 | 0 | 10 | 10 | | 17 | 17 | |
| TITANIUH | 10 | 10 | 0 | 10 | 10 | | 17 | 17 | |
| THALLIUM | 10 | 0 | 0 | 10 | 0 | _ | | 0 | |
| URANIUM | 10 | 10 | 0 | 10 | 10 | | | 15 | |
| VANADIUM | 10 | 2 | 8 | 10 | 0 | | | . 1 | |
| ZINC | 10 | 10 | 0 | 10 | 9 | 1 | 17 | 15 | |
| *TOTAL SCAN METALS | 240 | 99 | 72 | 240 | 89 | 78 | 391 | 161 | 12 |
| *TOTAL GROUP INORGANI | | | 12 | . 240 | 07 | 10 | 371 | 101 | 12 |
| | 478 | 312 | 85 | 513 | 326 | 95 | 784 | 523 | 14 |
| CHLOROAROMATICS | | | | | | | | | |
| | | | | 40 | | | | 0 | |
| HEXACHLOROBUTADIENE | | 0 | 0 | 10 | . 0 | 0 | 8 | 0 | |
| 123 TRICHLOROBENZENE | 10 | 0 | 0 | 10 | . 0 | 0 | 8 | 0 | |
| 1234 T-CHLOROBENZENE 1235 T-CHLOROBENZENE | 10 | 0 | 0 | 10 | 0 | | | 0 | |
| 124 TRICHLOROBENZENE | 10 | 0 | 0 | 10 | 0 | 0 | 8 | 0 | |
| 1245 T-CHLOROBENZENE | 10 | 0 | 0 | 10 | 0 | 0 | _ | 0 | |
| 135 TRICHLOROBENZENE | .10 | 0 | 0 | 10 | 0 | 0 | _ | 0 | |
| HCB | 10 | 0 | o | 10 | 0 | 0 | 8 | 0 | |
| HEXACHLOROETHANE | 10 | 0 | 0 | 10 | 0 | 0 | 8 | 0 | |
| OCTACHLOROSTYRENE | 10 | 0 | 0 | 10 | 0 | 0 | | 0 | |
| PENTACHLOROBENZENE | 10 | 0 | 0 | 10 | 0 | 0 | 8 | 0 | 1 |
| 236 TRICHLOROTOLUENE | 10 | 0 | 0 | 10 | 0 | 1 | 8 | 0 | 1 |
| 245 TRICHLOROTOLUENE | 10 | 0 | 0 | 10 | 0 | 0 | 8 | 0 | 1 |
| 26A TRICHLOROTOLUENE | 10 | 0 | .0 | 10 | 0 | 0 | 8 | 0 | - 1 |
| TOTAL SCAN CHLOROARD | HATICS | | | | | | | | |
| | 140 | 0 | 0 | 140 | 0 | 1 | 112 | 0 | 1 |

TABLE 4 DRINKING WATER SURVEILLANCE PROGRAM DELHI WTP SUMMARY TABLE OF RESULTS (1990)

| | RAW | | | TREATE | D . | | SITE 1 | | |
|--|----------|----------|-------|----------|----------|-------|----------|-----------|------|
| SCAN PARAMETER | TOTAL | DOCUTIVE | TRACE | TOTAL | POSITIVE | TDACE | TOTAL D | OCITIVE T | DACE |
| FARANCIEK | IOIAL | PUSTITVE | IKALE | IUIAL | POSTITAE | IKALE | TOTAL PO | 331114E 1 | KALE |
| CHLOROPHENOLS | ••••• | | | | | | | | |
| CHLOROPHENOLS | | | | | | | | | |
| 234 TRICHLOROPHENOL | 2 | 0 | | 2 | 0 | 0 | | | |
| 2345 T-CHLOROPHENOL | 2 | 0 | | 2 | 0 | 0 | • | • | • |
| 2356 T-CHLOROPHENOL 245-TRICHLOROPHENOL | . 2 | 0 | | . 2 | 0 | 0 | • | • | • |
| 246-TRICHLOROPHENOL | 2 | o | | 2 | o | ő | | | |
| PENTACHLOROPHENOL | . 2 | 0 | 0 | 2 | 0 | . 0 | • | | • |
| *TOTAL SCAN CHLOROPHE | NOI C | | | | | | | | |
| TOTAL DUAN SHEOKOFILE | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 - | 0 |
| | | | | | | | | | |
| PAH | | | | | | | | | |
| PHENANTHRENE | 10 | 0 | 0 | 10 | 0 | 0 | • | | |
| ANTHRACENE | 9 | 0 | | 9 | 0 | 0 | | • . | |
| FLUORANTHENE PYRENE | 10 | 0 | | 10 10 | 0 | 0 | • | • | • |
| BENZO(A)ANTHRACENE | 10 | 0 | | 10 | 0 | 0 | • | | • |
| CHRYSENE | 10 | 0 | | 10 | Ō | ō | . : | | |
| DIMETH. BENZ(A)ANTHR | 9 | 0 | 0 | | 0 | 0 | | | |
| BENZO(E) PYRENE BENZO(B) FLUORANTHEN | 10 | 0 | 0 | 10 10 | 0 | 0 | • | • | • |
| PERYLENE | 10 | 0 | . 0 | 10 | 0 | 0 | • | | • |
| BENZO(K) FLUORANTHEN | 10 | ŏ | ő | 10 | ő | ő | : | | : |
| BENZO(A) PYRENE | 10 | 0 | 0 | 10 | 0 | .0 | | | |
| BENZO(G,H,I) PERYLEN | 10 | 0 | 0 | 10 | 0 | 0 | | • | |
| DIBENZO(A,H) ANTHRAC INDENO(1,2,3-C,D) PY | 10 | . 0 | 0 | 10 10 | 0 | 0 | • | • | • |
| BENZO(B) CHRYSENE | 10 | 0 | ō | 10 | Ō | Ö | | | |
| CORONENE | 10 | . 0 | 0 | 10 | . 0 | 0 | • | | • |
| *TOTAL SCAN PAH | | | | | | | | | |
| | 168 | 0 | 0 | 168 | 0 | 0 | 0 | 0 | 0 |
| *************************************** | | | | | | | | | |
| PESTICIDES & PCB | | | | | | | | | |
| ALDRIN | 10 | 0 | 0 | 10 | 0 | 0 | 8 | 0 | 0 |
| ALPHA BHC | 10 | 0 | 0 | 10 | 0 | 0 | 8 | 0 | 0 |
| BETA BHC LINDANE | 10 | 0 | 0 | 10 10 | . 0 | . 0 | 8 8 | 0 | 0 |
| ALPHA CHLORDANE | 10 | ő | ő | 10 | . 0 | . 0 | 8 | Ö | 0 |
| GAMMA CHLORDANE | 10 | 0 | 0 | 10 | 0 | 0 | 8 | ō | Ö |
| DIELDRIN | 10 | 0 | 0 | 10 | 0 | 0 | 8 | 0 | 0 |
| METHOXYCHLOR ENDOSULFAN 1 | 10 10 | 0 | 0 | 10 | 0 | 0 | 8 | 0 | 0 |
| ENDOSULFAN II | 10 | 0 | 0 | 10 | 0 | 0 | 8 | 0 | 0 |
| ENDRIN | 10 | Ö | ő | 10 | . 0 | ő | 8 | Ö | Õ |
| ENDOSULFAN SULPHATE | 10 | 0 | 0 | 10 | 0 | 0 | 8 | 0 | 0 |
| HEPTACHLOR EPOXIDE HEPTACHLOR | 10 10 | 0 | 0 | 10 10 | 0 | 0 | - 8 | 0 | 0 |
| MIREX | 10 | 0 | 0 | 10 | 0 | | 8 . | . 0 | 0 |
| OXYCHLORDANE | 10 | 0 | ő | 10 | 0 | o | 8 | . 0 | ō |
| OPDOT | 10 | 0 | 0 | 10 | 0 | 0 | 8 | 0 | 0 |
| PCB DDD | 10 | 0 | 0 | 10 | 0 | 0 | 8 | 0 | 0 |
| PPDDE | 10 | 0 | 0 | 10 10 | 0 | 0 | 8 | 0 | 0 |
| | 10 | U | 0 | 10 | U | U | | | • |

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM DELHI WTP
SUMMARY TABLE OF RESULTS (1990)

| | RAW | | TREAT | ED | | SITE 1 | | |
|---|------------|------------|---------|----------|-------|-----------|---------|------|
| SCAN PARAMETER | TOTAL POS | ITIVE TRAC | E TOTAL | POSITIVE | TRACE | TOTAL POS | ITIVE T | RACE |
| PPDDT | 10 | O | 0 10 | 0 | 0 | 8 | 0 | 0 |
| AMETRINE | 10 | 0 | 0 10 | | 0 | | | |
| ATRAZINE | 10 | 0 | 3 10 | | 3 | | | |
| ATRATONE CYANAZINE (BLADEX) | 10 | 0 | 0 10 | | 0 | | • | |
| DESETHYLATRAZINE | 10 | 0 | 0 10 | | 0 | • | • | • |
| D-ETHYL SIMAZINE | 10 | 0 | 0 10 | | 0 | | • | • |
| PROMETONE | 10 | O | 0 10 | | 0 | | | |
| PROPAZINE | 10 | 0 | 0 10 | | 0 | | | |
| PROMETRYNE | 10 | 0 | 0 10 | | 0 | | | |
| METRIBUZIN (SENCOR) SIMAZINE | . 10 10 | 0 | 0 10 | | 0 | | | • |
| ALACHLOR (LASSO) | 10 | 0 | 0 10 | | 0 | | • | |
| METOLACHLOR | 10 | 0 | 0 10 | - | 0 | | | |
| HEXACLCYCLOPENTADIEN | . 2 | 0 | 0 2 | | 0 | 2 | 0 | 0 |
| | | | | | | | | |
| *TOTAL SCAN PESTICIDE | | | | | - | 470 | | |
| | 342 | 0 | 3 342 | 0 | 3 | 170 | 0 | 0 |
| | | | | | | | | |
| PHENOLICS | | | | | | | | |
| | | | _ | | _ | | | |
| PHENOLICS | 10 | 1 | 5 10 | 2 | 7 | • | * * | • |
| *TOTAL SCAN PHENOLICS | | | | | | | | |
| | 10 | 1 | 5 10 | 2 | 7 | 0 | 0 | 0 |
| *************************************** | | | | | | | | |
| SPECIFIC PESTICIDES | | | | | | | | |
| | | | | | | | | |
| TOXAPHENE | 10 | 0 | 0 10 | | 0 | 8 | 0 | Đ |
| 2,4,5-T | 2 | 0 | 0 2 | | 0 | | • | |
| 2,4-D 2,4-DB | 2 2 | 0 | 0 2 | | 0 | • | • | |
| 2.4 D PROPIONIC ACID | 2 | 0 | 0 2 | | 0 | | • | • |
| DICAMBA | 2 | 0 | 0 2 | | 0 | | | |
| PICHLORAM | 0 | 0 | 0 0 | | 0 | | | |
| SILVEX | 2 | 0 | 0 2 | | 0 | | | • |
| DIAZINON DICHLOROVOS | 2 2 | 0 | 0 2 | 0 | 0 | • | • | • |
| CHLORPYRIFOS | 2 | 0 | 0 2 | | 0 | : | : | • |
| ETHION | 2 | 0 | 0 2 | | 0 | | | |
| AZINPHOS-METHYL | 0 | | 0 0 | | 0 | | | |
| MALATHION | 2 | | 0 2 | | 0 | | | |
| MEVINPHOS | 2 | 0 | 0 2 | 0 | 0 | • | • | • |
| METHYL PARATHION METHYLTRITHION | 2 | | 0 2 | 0 | 0 | | | |
| PARATHION | 2 | | 0 2 | 0 | 0 | | | |
| PHORATE | 1 | - | 0 1 | 0 | 0 | | | |
| RELDAN | 2 | - | 0 2 | 0 | 0 | | | |
| RONNEL | 2 | | 0 2 | 0 | 0 | • | | • |
| AMINOCARB BENONYL | 0 | | 0 0 | 0 | 0 | : | | |
| BUX | 0 | | 0 0 | 0 | 0 | | | |
| CARBOFURAN | 1 | 0 | 0 2 | 0 | 0 | | | |
| CICP | 1 | | 0 2 | 0 | 0 | | | |
| DIALLATE | 1 | 0 | 0 2 | 0 | 0 | • | • | |

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM DELHI WTP
SUMMARY TABLE OF RESULTS (1990)

| | RAW | | | TREAT | ED | | SITE 1 | | |
|------------------------|-------|----------|-------|-------|----------|-------|---------|----------|-------|
| PARAMETER . | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL P | POSITIVE | TRACE |
| EPTAM | 1 | 0 | 0 | 2 | 0 | 0 | | | |
| IPC | 1 | 0 | 0 | 2 | 0 | 0 | | | |
| PROPOXUR . | 1 | 0 | 0 | 2 | 0 | 0 | | | |
| CARBARYL | 1 | 0 | 0 | 2 | . 0 | 0 | | | |
| BUTYLATE | 1 | 0 | 0 | 2 | 0 | 0 | • | • | • |
| *TOTAL SCAN SPECIFIC | | | | | | | | | |
| | 53 | 0 | . 0 | 61 | 0 | . 0 | 8 | 0 | 0 |
| VOLATILES | | | | | | | | | |
| BENZENE | 9 | 0 | 0 | 10 | 0 | 1 | 9 | 0 | 2 |
| TOLUENE | 9 | 0 | 0 | 10 | 0 | 4 | 9 | 0 | 1 |
| ETHYLBENZENE | 9 | 0 | 1 | 10 | 0 | 6 | 9 | 0 | 4 |
| P-XYLENE | 9 | 0 | 0 | 10 | . 0 | 0 | 9 | 0 | 0 |
| M-XYLENE | 9 | 0 | . 0 | 10 | 0 | 0 | 9 | 0 | 0 |
| O-XYLENE | 9 | . 0 | 0 | 10 | 0 | 0 | 9 | 0 | 1 |
| STYRENE | 9 | . 0 | 0 | 10 | . 0 | 6 | 9 | 0 | . 4 |
| 1,1 DICHLOROETHYLENE | 9 | | 0 | 10 | 0 | 0 | 9 | 0 | 0 |
| METHYLENE CHLORIDE | 9 | 0 | 0 | 10 | 0 | 0 | 9 | 0 | 0 |
| T1,201CHLOROETHYLENE | 9 | | 0 | 10 | 0 | 0 | 9 | 0 | 1 |
| 1,1 DICHLOROETHANE | 9 | | 0 | 10 | 0. | - O | 9 | 0 | 0 |
| CHLOROFORM | 9 | | 0 | 10 | 10 | 0 | 9 | 8 | 0 |
| 111, TRICHLOROETHANE | 9 | | 0 | 10 | 0 | 0 | . 9 | . 1 | . 2 |
| 1,2 DICHLOROETHANE | 9 | | 0 | 10 | 0 | 0 | 9 | 0 | 0 |
| CARBON TETRACHLORIDE | 9 | | 0 | 10 | 0 | 0 | 9 | 0 | 0 |
| 1,2 DICHLOROPROPANE | 9 | | 0 | 10 | 0 | 0 | 9 | 0 | 0 |
| TRICHLOROETHYLENE | 9 | | 1 | 10 | 0 | 0 | 9 | 2 | 0 |
| DICHLOROBROMOMETHANE | 9 | | 0 | 10 | | 0 | 9 | 8 | 0 |
| 112 TRICHLOROETHANE | . 9 | | 0 | 10 | 0 | 0 | 9 | 0 | 0 |
| CHLOROD I BROMOMETHANE | 9 | | . 0 | 10 | 1 | 9 | 9 | 2 | 6 |
| T-CHLOROETHYLENE | 9 | | 1 | 10 | 0 | 0 | 9 | 0 | 2 |
| BROMOFORM | 9 | | 0 | 10 | . 0 | 0 | 9 | 0 | 2 |
| 1122 T-CHLOROETHANE | 9 | | 0 | 10 | 0 | 0 | 9 | 0 | 0 |
| CHLOROBENZENE | . 9 | | 0 | 10 | . 0 | 0 | 9 | 0 | 0 |
| 1,4 DICHLOROBENZENE | 9 | | 0 | 10 | 0 | 0 | 9 | 0 | 0 |
| 1,3 DICHLOROBENZENE | 9 | | 0 | 10 | 0 | 0 | 9 | 0 | 0 |
| 1,2 DICHLOROBENZENE | 9 | _ | 0 | 10 | 0 | 0 | . 9 | 0 | 0 |
| ETHLYENE DIBROMIDE | 9 | | . 0 | 10 | 0 | 0 | 9 | . 0 | 0 |
| TOTL TRIHALOMETHANES | 9 | 1 | 0 | 10 | 10 | 0 | 9 | 8 | 0 |
| *TOTAL SCAN VOLATILES | 261 | 4 | . 3 | 290 | 31 | 26 | 261 | 29 | 25 |
| *TOTAL GROUP ORGANIC | 201 | 4 | 3. | 290 | 31 | 26 | 201 | 29 | 25 |
| TOTAL GROUP ORGANIC | 986 | 5 | 11 | 1023 | 33 | 37 | 551 | 29 | 25 |
| | | | | | | | | | |

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM DELHI SPRING SUPPLY SUMMARY TABLE OF RESULTS (1990)

| | RAU | | | TREAT | ED | | SITE 1 | 1 | |
|--------------------------------------|-------|----------|-------|-------|----------|-------|--------|----------|-------|
| PARAMETER | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE |
| BACTERIOLOGICAL | | | | | | | | | |
| FECAL COLIFORN NF | 10 | - | 0 | | : | | | . 5 | |
| STANDRD PLATE CHT MF | 10 | | 0 | 10 | 6 | | 10 | - | |
| T COLIFORM BCKGRD MF | 10 | | | • | | | | | • |
| COLIFORN BUXURU HE | 10 | , | U | | | • | • | • | ٠ |
| *TOTAL GROUP BACTERIO | | | | 40 | , | • | 40 | | 0 |
| | 30 | | | | | | - | 5 | 0 |
| CHEMISTRY (FLD) | | | | | | | | | |
| FLD CHLORINE (COMB) | | | | 8 | 8 | 0 | 19 | 12 | 0 |
| FLD CHLORINE (COMB) | • | | | 9 | 9 | | | 19 | - |
| FLD CHLORINE (TOTAL) | | | | 9 | 9 | | | 19 | - |
| FLD PH | 9 | | | 9 | 9 | | 19 | 19 | 0 |
| FLD TEMPERATURE | 9 | 9 | 0 | 9 | 9 | 0 | 19 | 19 | 0 |
| *TOTAL SCAN CHEMISTRY | (FLD) | | | | | | | | |
| | 18 | 18 | 0 | 44 | 44 | 0 | 95 | 88 | 0 |
| | | | | | | | | | |
| CHEMISTRY (LAB) | | | | | | | | | |
| ALKALINITY | 10 | 10 | 0 | 10 | 10 | 0 | 19 | 19 | 0 |
| CALCIUM | 10 | 10 | 0 | 10 | 10 | 0 | 19 | 19 | 0 |
| CYANIDE | 10 | | | 10 | 0 | - | | | |
| CHLORIDE | 10 | | | 10 | 10 | _ | | 19 | |
| COLOUR | 10 | | | 10 | 0 | | 19 | 10 | |
| CONDUCTIVITY DISS ORG CARBON | 10 | | - | 10 | 10 | _ | | 19 | - |
| FLUORIDE | 10 | | - | 10 | 10 | - | | 19 | 0 |
| HARDNESS | 10 | | | 10 | 10 | - | | 19 | - |
| IONCAL | 10 | | | 10 | 10 | - | | 19 | _ |
| LANGELIERS INDEX | 10 | 10 | 0 | 10 | 10 | 0 | 19 | 19 | 0 |
| MAGNESIUM | 10 | | | 10 | 10 | | 19 | 19 | |
| SODIUM | 10 | 10 | | 10 | 10 | | | 19 | |
| ANHONIUM TOTAL | 10 | 5 | | 10 | 0 | | | 2 | |
| WITRITE | 10 | | | 10 | 2 | | 19 | 6 | |
| TOTAL NITRATES NITROGEN TOT KJELD | 10 | 10 | | 10 | 10 | | 19 | 19 18 | 1 |
| PH PH | 10 | 10 | | 10 | 10 | | 19 | 19 | |
| PHOSPHORUS FIL REACT | 10 | 0 | | 10 | 7 | | | | |
| PHOSPHORUS TOTAL | 10 | 0 | | 10 | 3 | | | | |
| SULPHATE | 10 | 10 | - | 10 | 10 | - | 19 | 19 | |
| TURBIDITY | 10 | 10 | 0 | 10 | 10 | 0 | 19 | 17 | 2 |
| *TOTAL SCAN CHEMISTRY | (LAB) | | | | | | | | |
| | 220 | 174 | 21 | 220 | 170 | 20 | 361 | 319 | 23 |
| | | | | | | | | | |

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM DELHI SPRING SUPPLY SUMMARY TABLE OF RESULTS (1990)

| | RAW | | | TREATED | | | SITE 1 | | |
|--|---------------|----------|------|----------|---------|------|----------|----------|-------|
| SCAN PARAMETER | TOTAL POS | ITIVE T | RACE | TOTAL PO | SITIVE | RACE | TOTAL | POSITIVE | TRACE |
| METALS | ******* | | | | | | | | |
| SILVER | 10 | 0 | 0 | 10 | 0 | 0 | 19 | 0 | 0 |
| ALUMINUM | 10 | 10 | 0 | 10 | 10 | 0 | 19 | 19 | 0 |
| ARSENIC | 10 | 0 | 3 | 10 10 | 10 | 5 | 19 19 | 1 19 | 16 |
| BARIUM BORON | 10 10 | 10 | 0 | 10 | 10 | 0 | 19 | 16 | 3 |
| BERYLLIUM | 10 | 0 | 2 | 10 | 0 | 3 | 19 | 0 | 6 |
| CADRIUM | 10 | ŏ | ō | 10 | 1 | ō | 19 | Ö | 2 |
| COBALT | 10 | ŏ | | 10 | Ö | 4 | 19 | 0 | |
| CHRONIUM | 10 | Ö | 9 | 10 | 1 | 8 | 19 | 6 | 8 |
| COPPER | 10 | 0 | 10 | 10 | 0 | 10 | 19 | 19 | |
| IRON | 10 | 0 | 0 | 10 | 0 | 0 | 19 | 1 | 11 |
| MERCURY | 10 | 0 | 1 | 10 | 1 | 1 | | | |
| MANGANESE | 10 | 10 | 0 | 10 | 10 | 0 | 19 | 19 | 9 |
| HOLYBDENUM | 10 | 0 | 9 | 10 | 0 | 9 | 19 | 10 | 9 |
| ICKEL | 10 | 1 | 2 | 10 | 1 | | 19 | 3 | 3 |
| LEAD | 10 | 0 | 6 | 10 | 0 | | 19 | 13 | 11 |
| ANTIMONY | 10 | 1 | 9 | 10 | 1 | 9 | 19 19 | 8 | 13 |
| SELENIUM | 10 | 0 | 9 | 10 10 | 0 10 | 0 | 19 | 19 | (|
| STRONTIUM TITANIUM | 10 10 | 10 10 | 0 | 10 | 10 | 0 | 19 | 19 | |
| THALLIUM | 10 | 10 | 0 | 10 | 0 | 0 | 19 | 0 | - 1 |
| DRANTUM | 10 | 0 | 10 | 10 | ő | 10 | 19 | 14 | 5 |
| VANADIUM | 10 | 1 | 7 | 10 | 1 | 7 | 19 | 1 | |
| ZINC | 10 | 8 | | 10 | 8 | 2 | 19 | 19 | |
| *TOTAL SCAN METALS | | | | | | | | | |
| | 240 | 70 | 83 | 240 | 75 | 87 | 437 | 206 | 129 |
| *TOTAL GROUP INORGANI | | | | | | | | | |
| | 478 | 262 | 104 | 504 | 289 | 107 | 893 | 613 | 152 |
| CHLOROAROMATICS | | | | | | | | | |
| IFVA OUL OROBUTA DE FUE | | | | 40 | | | 40 | • | |
| HEXACHLOROBUTADIENE | 10 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | (|
| 123 TRICHLOROBENZENE 1234 T-CHLOROBENZENE | 10 10 | 0 | 0 | 10 10 | 0 | 0 | 10 10 | 0 | 0 |
| 1235 T-CHLOROBENZENE | 10 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | Č |
| 124 TRICHLOROBENZENE | 10 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | Č |
| 1245 T-CHLOROBENZENE | 10 | 0 | 0 | 10 | ő | ñ | 10 | ő | ď |
| 35 TRICHLOROBENZENE | 10 | ő | ő | 10 | ŏ | . 0 | 10 | Ö | č |
| HCB | 10 | ŏ | ő | 10 | ŏ | Ö | 10 | Ö | č |
| EXACHLOROETHANE | 10 | ŏ | o | 10 | ŏ | ŏ | 10 | Ö | Č |
| CTACHLOROSTYRENE | 10 | ŏ | 0 | 10 | ō | ŏ | 10 | Ō | Č |
| PENTACHLOROBENZENE | 10 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | C |
| 236 TRICHLOROTOLUENE | 10 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | 0 |
| 245 TRICHLOROTOLUENE | 10 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | 0 |
| 26A TRICHLOROTOLUENE | 10 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | (|
| | | | | | | | | | |
| TOTAL SCAN CHLOROARD | MATICS 140 | 0 | 0 | 140 | 0 | 0 | 140 | 0 | 0 |

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM DELHI SPRING SUPPLY SUMMARY TABLE OF RESULTS (1990)

| SCAN | RAW | | | TREAT | D | | SITE | 1 | |
|----------------------|-------|----------|-------|-------|----------|-------|-------|-----------------|-------|
| PARAMETER | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE |
| CHLOROPHENOLS | | | | | | | | | |
| 234 TRICHLOROPHENOL | 2 | | 0 | 2 | 0 | 0 | | | |
| 2345 T-CHLOROPHENOL | 2 | 0 | 0 | 2 | 0 | 0 | | | |
| 2356 T-CHLOROPHENOL | 2 | 0 | 0 | 2 | 0 | 0 | | | |
| 245-TRICHLOROPHENOL | 2 | 0 | 0 | 2 | 0 | 0 | | | |
| 246-TRICHLOROPHENOL | 2 | | 0 | | 0 | 0 | | | |
| PENTACHLOROPHENOL | 2 | 0 | 0 | 2 | 0 | 0 | | | |
| TOTAL SCAN CHLOROPHE | | | | | | | | | |
| | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | |
| PAH | ••••• | | ••••• | | | | | | |
| PHENANTHRENE | 10 | 0 | 0 | 10 | 0 | 0 | 1 | 0 | |
| NTHRACENE | 9 | | _ | 9 | 0 | 0 | | - | |
| LUORANTHENE | 10 | | | 10 | 0 | 0 | | | |
| YRENE | 10 | | | | 0 | 0 | | | |
| BENZO(A)ANTHRACENE | 10 | | - | | 0 | 0 | | | |
| CHRYSENE | 10 | | | | 0 | 0 | - | - | |
| IMETH. BENZ(A)ANTHR | 9 | | | | ő | 0 | | | |
| BENZO(E) PYRENE | 10 | | | | 0 | 0 | - | | |
| ENZO(B) FLUORANTHEN | 10 | | | | 0 | 0 | | - | |
| PERYLENE | 10 | | | 10 | ő | 0 | - | - | |
| ENZO(K) FLUORANTHEN | 10 | | | | 0 | 0 | | | |
| ENZO(A) PYRENE | 10 | - | | 10 | 0 | 0 | | | |
| ENZO(G,H,I) PERYLEN | 10 | | | | 0 | 0 | | 0 | |
| IBENZO(A, H) ANTHRAC | 10 | | | | 0 | 0 | | 0 | |
| NDENO(1,2,3-C,D).PY | 10 | | | | 0 | 0 | | 0 | |
| ENZO(B) CHRYSENE | 10 | - | | | 0 | 0 | | 0 | |
| CORONENE | 10 | Ō | | 10 | 0 | 0 | 1 | 0 | |
| TOTAL SCAN PAH | | | | | | | | | |
| | 168 | 0 | 0 | 168 | 0 | 0 | 17 | 0 | |
| ESTICIDES & PCB | | | | | | | | • • • • • • • • | |
| LDRIN | 10 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | |
| LPHA BHC | 10 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | |
| ETA BHC | 10 | 0 | 0 | 10 | 0 | 0 | | | |
| INDANE | 10 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | |
| LPHA CHLORDANE | 10 | 0 | 0 | 10 | 0 | 0 | 10 | | |
| AMMA CHLORDANE | 10 | 0 | 0 | 10 | 0 | 0 | | | |
| IELDRIN | 10 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | |
| ETHOXYCHLOR | 10 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | |
| NDOSULFAN 1 | 10 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | |
| NDOSULFAN II | 10 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | |
| NDRIN | 10 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | - 4 |
| NDOSULFAN SULPHATE | 10 | | 0 | 10 | 0 | 0 | 10 | 0 | |
| EPTACHLOR EPOXIDE | 10 | | 0 | 10 | 0 | 0 | 10 | 0 | |
| EPTACHLOR | 10 | 0 | 0 | 10 | 0 | 0 | 10 | | |
| IREX | 10 | 0 | | 10 | 0 | 0 | 10 | 0 | |
| XYCHLORDANE | 10 | 0 | | 10 | 0 | 0 | 10 | 0 | 1 |
| | 10 | 0 | 0 | 10 | 0 | 0 | 10 | | |
| | (U | | | | | | | | |
| DPDDT DCB | 10 | 0 | | 10 | 0 | 0 | 10 | | |
| POOT | - | | 0 | 10 | 0 | 0 | | | (|

TABLE 4
DRINKING WATER-SURVEILLANCE PROGRAM DELHI SPRING SUPPLY SUMMARY TABLE OF RESULTS (1990)

| | RAW | | TREATED | | SITE 1 | | |
|--|---|---------------------------------------|--|---------------------------------------|------------|---------|------|
| SCAN PARAMETER | TOTAL POSIT | TIVE TRACE | TOTAL POS | SITIVE TRACE | TOTAL POST | TIVE TR | RACE |
| PPDDT AMETRINE ATRAZINE ATRAZINE CYANAZINE (BLADEX) DESETHYLATRAZINE D-ETHYL SIMAZINE PROMETONE PROPAZINE PROMETRYNE METRIBUZIN (SENCOR) SIMAZINE ALACHLOR (LASSO) METOLACHLOR HEXACLCYCLOPENTADIEN *TOTAL SCAN PESTICIDE: | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 10 | | 0 |
| | 342 | 0 1 | 329 | 0 1 | 212 | 0 | 0 |
| PHENOLICS | | | | | | | |
| *TOTAL SCAN PHENOLICS | 10 | 1 5 | 10 | 0 2 | • | ٠ | ٠ |
| SPECIFIC PESTICIDES | 10 | 1 . 5 | 10 | 0 2 | 0 | 0 | 0 |
| TOXAPHENE 2,4,5-T 2,4-DB 2,4-DB 2,4-DB 2,4-D PROPIONIC ACID DICAMBA PICHLORAM SILVEX DIAZINON DICHLOROVOS CHLORPYRIFOS ETHION AZINPHOS-METHYL MALATHION MEVINPHOS METHYL PARATHION METHYL PARATHION PHORATE RELDAN RONNEL ANTHOCARB BENOMYL BUX CARBOFURAN CICP DIALLATE | 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 10 | | |

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM DELHI SPRING SUPPLY SUMMARY TABLE OF RESULTS (1990)

| | RAW | | | TREATE | ED . | | SITE | 1 | |
|--|-------|----------|-------|--------|----------|-------|-------|----------|-------|
| SCAN PARAMETER | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE |
| EPTAN | 2 | 0 | . 0 | 2 | 0 | 0 | | | |
| IPC | 2 | 0 | 0 | 2 | 0 | 0 | | | |
| PROPOXUR | 2 | 0 | 0 | 2 | 0 | 0 | • | : | • |
| CARBARYL | 2 | 0 | 0 | 2 | 0 | 0 | | | |
| BUTYLATE | 2 | 0 | 0 | 2 | 0 | 0 | | : | : |
| | - | | | _ | | | | | |
| *TOTAL SCAN SPECIFIC | | | | | | | | | |
| | 61 | . 0 | 0 | 61 | 0 | 0 | 10 | 0 | 0 |
| *************************************** | | | | | | | | | |
| VOLATILES | | | | | | | | | |
| BENZENE | 10 | 0 | . 0 | 10 | . 0 | 4 | 9 | 0 | 1 |
| TOLUENE | 10 | 0 | . 0 | 10 | 0 | 0 | 9 | . 0 | 2 |
| ETHYLBENZENE | 10 | 0 | 5 | 10 | 0 | 7 | 9 | 0 | 4 |
| P-XYLENE | 10 | 0 | 0 | 10 | 0 | 0 | 9 | . 0 | 0 |
| M-XYLENE | 10 | 0 | 0 | 10 | 0 | 0 | 9 | 0 | 0 |
| O-XYLENE | 10 | 0 | 0 | 10 | 0 | 0 | 9 | 0 | 0 |
| STYRENE | 10 | 0 | 7 | 10 | 0 | . 1 | 9 | 0 | 3 |
| 1,1 DICHLOROETHYLENE | 10 | 0 | 0 | 10 | 0 | 0 | 9 | 0 | 0 |
| METHYLENE CHLORIDE | 10 | 0 | 0 | 10 | 0 | 0 | 9 | 0 | 0 |
| T1,2DICHLOROETHYLENE | 10 | 0 | 1 | 10 | 0 | 2 | 9 | 0 | 1 |
| 1,1 DICHLOROETHANE | 10 | 0 | 0 | 10 | 0 | 0 | 9 | 0 | 0 |
| CHLOROFORM | 10 | 4 | 6 | 10 | 10 | 0 | 9 | 9 | 0 |
| 111, TRICHLOROETHANE | 10 | . 5 | 8 | 10 | 2 | 8 | 9 | 1 | 2 |
| 1,2 DICHLOROETHANE | 10 | 0 | 0 | 10 | 0 | 0 | 9 | 0 | 0 |
| CARBON TETRACHLORIDE | 10 | 0 | . 0 | 10 | . 0 | 0 | 9 | 0 | 0 |
| 1,2 DICHLOROPROPANE . TRICHLOROETHYLENE | 10 | 0 | 0 | 10 | 0 | 0 | 9 | 0 | 0 |
| DICHLOROBROMOMETHANE | 10 | 9 | 0 | 10 | 10 | 0 | 9 | 4 | 5 |
| 112 TRICHLOROETHANE | 10 | 0 | 9 | 10 | 10 | 0 | 9 | 9 | 0 |
| CHLOROD I BRONOMETHANE | 10 | 0 | 1 | 10 | 10 | 0 | 9 | 4 | 5 |
| T-CHLOROETHYLENE | 10 | 0 | 9 | 10 | 0 | 10 | 9 | 0 | 5 |
| BROHOFORM | 10 | 0 | 0 | 10 | 0 | 10 | 9 | 0 | 4 |
| 1122 T-CHLOROETHANE | 10 | 0 | 0 | 10 | 0 | 0 | 9 | 0 | 0 |
| CHLOROBENZENE | 10 | 0 | 1 | 10 | 0 | 0 | 9 | 0 | 0 |
| 1,4 DICHLOROBENZENE | 10 | 0 | ò | 10 | 0 | 0 | 9 | 0 | 0 |
| 1,3 DICHLOROBENZENE | 10 | 0 | 0 | 10 | 0 | 0 | 9 | 0 | 0 |
| 1.2 DICHLOROBENZENE | 10 | 0 | 0 | 10 | 0 | 0 | 9 | 0 | 0 |
| ETHLYENE DIBRONIDE | 10 | 0 | 0 | 10 | 0 | 0 | 9 | 0 | 0 |
| TOTL TRIHALOMETHANES | 10 | 0 | 8 | 10 | 10 | 0 | 9 | 9 | 0 |
| *TOTAL SCAN VOLATILES | | | | | | | | | |
| | 290 | . 15 | 55 | 290 | 52 | 43 | 261 | 36 | 32 |
| *TOTAL GROUP ORGANIC | | | | | | | | | |
| | 1023 | 16 | 61 | 1010 | 52 | 46 | 640 | 36 | 32 |
| | | | | | | | | | |

KEY TO TABLE 5 and 6

- ONTARIO DRINKING WATER OBJECTIVES (ODWO)
 - 1. Maximum Acceptable Concentration (MAC)
 - 1+. MAC for Total Trihalomethanes
 - Interim Maximum Acceptable Concentration (IMAC)
 Aesthetic Objective (AO)

 - 3*. AO for Total Xylenes
 - 4. Recommended Operational Guideline
- HEALTH & WELFARE CANADA (H&W)
 - 1. Maximum Acceptable Concentration (MAC)
 - 2. Proposed MAC
 - 3. Interim MAC 4. Aesthetic Objective (AO)

 - WORLD HEALTH ORGANIZATION (WHO)
 - 1. Guideline Value (GV)
 2. Tentative GV
 3. Aesthetic GV

C ·

- US ENVIRONMENTAL PROTECTION AGENCY (EPA) D
 - 1. Maximum Contaminant Level (MCL)
 - 2. Suggested No-Adverse Effect Level (SNAEL)
 - 3. Lifetime Health Advisory

 - 4. EPA Ambient Water Quality Criteria 4T. EPA Ambient Water Quality Criteria for Total PAH
- EUROPEAN ECONOMIC COMMUNITY (EEC)
 - 1. Health Related Guideline Level
 - 2. Aesthetic Guideline Level
 - 3. Maximum Admissable Concentration (MADC)
- CALIFORNIA STATE DEPARTMENT OF HEALTH-GUIDELINE VALUE
- NEW YORK STATE AMBIENT WATER GUIDELINE
- N/A NONE AVAILABLE

LABORATORY RESULTS, REMARK DESCRIPTIONS

| | No Sample Taken |
|------|--|
| BDL | Below Minimum Measurement Amount |
| <1 | Greater Than Detection Limit But Not Confident (SEE INTERPRETATION OF RESULTS ABOVE) |
| > | Results Are Greater Than The Upper Limit |
| <=> | Approximate Result |
| 103 | No Data: Contamination Suspected |
| IIL | No Data: Sample Incorrectly Labelled |
| 115 | No Data: Insufficient Sample |
| IIV | No Data: Inverted Septum |
| ILA | No Data: Laboratory Accident |
| ILD | No Data: Test Queued After Sample Discarded |
| INA | No Data: No Authorization To Perform Reanalysis |
| INP | No Data: No Procedure |
| INR | No Data: Sample Not Received |
| 109 | No Data: Obscured Plate |
| 100 | No Data: Quality Control Unacceptable |
| !PE | No Data: Procedural Error - Sample Discarded |
| IPH | No Data: Sample pH Outside Valid Range |
| IRE | No Data: Received Empty |
| 1RO | No Data: See Attached Report (no numeric results) |
| 1 SH | No Data: Sample Missing |
| ISS | No Data: Send Separate Sample Properly Preserved |
| IUI | No Data: Indeterminant Interference |
| ITX | No Data: Time Expired |
| A3C | Approximate, Total Count Exceeded 300 Colonies |
| APL | Additional Peak, Large, Not Priority Pollutant |
| APS | Additional Peak, Less Than, Not Priority Pollutant |
| CIC | Possible Contamination, Improper Cap |
| CRO | Calculated Result Only |
| PPS | Test Performed On Preserved Sample |
| RMP | P and M-Xylene Not Separated |
| RRV | Rerun Verification |
| RVU | Reported Value Unusual |
| SPS | Several Peaks, Small, Not Priority Pollutant |

| UCR | Unreliable: Could Not Confirm By Reanalysis |
|-----|---|
| ucs | Unreliable: Contamination Suspected |
| UIN | Unreliable: Indeterminate Interference |
| XP | Positive After X Number Of Hours |
| TS | (TO6) Result Taken After # Hours |

WATER TREATMENT PLANT

| RJ | W | TREATED | SITE 1 | |
|------------|----------------|------------|----------------|---------------------------|
| | | | STANDING | FREE FLOW |
| | DACTED | 110LOG1CAL | | |
| FECAL COL | FORM MF (CT/10 | | DET "N LIMIT = | 0 GUIDELINE = 0 (A1) |
| MAR | . 2 | | | |
| APR | 2 | | | |
| MAY | 8 | | | |
| JUN | 38 | | | |
| JUL | 24 | | | 9 |
| AUG | BDL | | | |
| SEP | 2 | | ,* | |
| OCT | 34 | | | • |
| NOA | 0 | | | • |
| DEC | 4 | | | • |
| | ATE ONT MF (C | COUNT/HL) | DET'N LIMIT : | O GUIDELINE = 500/ML (A3) |
| NAR | | 7 | <=> . | 7 <=> |
| APR | • | 24 | | 16 |
| HAY | • | 1700 | | 100 |
| JUN | • | 2400 | | |
| JUL | | 2400 | | 45 |
| AUG | | 2400 | | 45 |
| SEP | | 2400 | | 2400 > |
| OCT | | 24 | | 41 |
| NOV | | 0 | | 1 <=> |
| DEC | | 4 | <=> . | 6 <=> |
| TOTAL COL | FORM MF (CT/10 | OOHL) | DET'N LIMIT = | 0 GUIDELINE = 5/100ML(A1) |
| MAR | 520 | | | |
| APR | 1600 | • | | |
| HAY | 400 <=> | • | • | · · |
| JUN | 800 <=> | • | • | • |
| JUL | 180 <=> | | • | |
| AUG | BDL | | | |
| SEP | BDL | | | |
| OCT | 160 | | | |
| NOV | 0 | i i | | |
| DEC | 1100 | | | |
| | BCKGRD MF (CT | | DET'N LIMIT = | O GUIDELINE = N/A |
| | | | | |
| HAR | 6200 | • | | |
| APR | 21000 | • | | • |
| HAY | 46000 | • | | • |
| JUN | 30000 | | | • |
| JUL AUG | 15600 BDL | • | | • |
| | | | | • |
| SEP | 24000 > | | ٠ | • |
| NOV | 24000 > | | 0 | • |
| DEC | 4100 | | • | • |
| DEC | 4100 | | 0 | • |

DISTRIBUTION S

WATER TREATMENT PLANT

RAW TREATED SITE 1 STANDING FREE FLOW CHEMISTRY (FLD) GUIDELINE = N/A FLD CHLORINE (COMB) (MG/L) DET'N LIMIT = 0 .300 .100 .500 1.700 APR MAY .200 .200 JUN .200 .300 JUL .200 .200 .200 .400 AUG .200 .000 SEP .300 .000 -200 OCT .400 NOV -600 .200 .600 .400 .200 DEC DET'N LIMIT = 0 GUIDELINE = N/A FLD CHLORINE FREE (MG/L .500 MAR 1.900 .100 APR 1.200 MAY .900 1.100 JUN 1.300 JUL 1.300 1.000 1.100 AUG 1.100 1,100 SEP 1.100 .100 .500 .500 .500 OCT .700 1.100 NOV .300 DEC 1.600 1.100 1.100 FLD CHLORINE (TOTAL) (MG/L DET'N LIMIT = 0 GUIDELINE = N/A · MAR .800 2.000 APR 1.700 1.800 MAY 1.100 1.300 JUN 1.500 1.500 JUL 1.300 1.300 AUG 1.300 1.500 SEP 1.300 .400 .500 OCT 1.100 .700 .500 NOV .900 1.300 DEC 2.000 1.300 1,700 FLD PH (DMNSLESS) DET'N LIMIT = N/A GUIDELINE = 6.5-8.5(A4) 7.900 MAR 8.000 7.600 APR 8.000 7.900 8.200 8.400 8.400 MAY 7,600 JUN 7.600 7.600 8.000 7.600 JUL 8.100 AUG 7.400 7.500 7.600 7.600 SEP 7.800 7.600 7.800 7.800 OCT 7.200 7.600 7.400 7.400 NOV 7.800 7.800

DEC

7,400

7,600

8.000

8,000

DISTRIBUTION SYSTE

WATER TREATMENT PLANT

| RA | .u | TREATED | SITE 1 | |
|--|--|--|--------------------------------------|---|
| | | | STANDING | FREE FLOW |
| FLD TEMPER | ATURE (DEG.C |) | DET'N LIMIT = N/A | GUIDELINE = 15 (A3) |
| JUN JUL AUG | 2.000 5.500 11.000 15.000 15.000 16.000 15.000 10.000 | 2.000 6.000 10.000 15.000 15.500 16.000 15.000 12.000 | 18.000 18.000 16.000 15.000 | 3.000 1.000 15.000 16.000 16.000 16.000 10.000 8.000 |
| FLD TURBID MAR APR MAY JUN JUL AUG SEP OCT | TTY (FTU) | .120 .310 .870 .710 .230 .180 .460 | DET'N LIMIT = N/A | GUIDELINE = 1 (A1) |
| DEC | • | .310 | • | : |

DISTRIBUTION SYST

WATER TREATMENT PLANT

DISTRIBUTION SYSTE

| F | RAW | TREATED | SITE 1 | |
|------------|------------------|---|---|-------------------------|
| | | | STANDING | FREE FLOW |
| | CHEMIS | TRY (LAB) | | |
| ALKALINIT | TY (MG/L) | | DET'N LIMIT = 0.2 | GUIDELINE = 30-500 (A3) |
| MAR | 203.100 | . 189.200 | | 199.400 |
| APR | | 200 500 | 201.400 | 200.500 |
| | 195.600 | 193.800 | 187.900 | 188.700 |
| JUN | 191.100 | 193.800 186.100 | | |
| JUL AUG | 198.100 | 192.100 | 194.200 | 193.500 |
| SEP | - | 186.700 | 217 200 | 219.700 |
| OCT | 196 800 | 189.000 190.600 | 217.100 207.700 | 218.700 |
| NOV | 209.900 | 206.400 | 207,700 | 206.200 |
| DEC | 214.200 | 209.500 | | 210.600 |
| | | | | |
| CALCIUM (| (MG/L) | | DET'N LIMIT = 0.2 | GUIDELINE = 100 (F2) |
| | 95.000 | 88.800 | | 94.200 |
| APR | 91.600 | 95.800 | 93.900 88.200 | 95.400 |
| MAY | 88.900 81.900 | 88.200 | 88.200 | 87.900 |
| JUN | 81.900 | 82.200 | | |
| JUL | 90.000 | 89.000 | 89.000 81.700 | 87.800 82.900 |
| SED | 82.000 83.800 | 82.000 84.000 | 94.000 | 95.000 |
| OCT | 86.800 | 87.600 | 97.800 | 96.400 |
| NOV | 95.800 | 96.200 | 96.600 | 93.200 |
| DEC | 99.300 | 97.700 | 96.300 | 102.100 |
| | (MG/L) | *************************************** | DET'N LIMIT = 0.2 | GUIDELINE = 250 (A3) |
| MAD | 16.500 | 21.300 | | 20.300 |
| APR | 17.500 | 21.200 | 21 800 | 22.000 |
| MAY | 16.300 | 20.800 | 21.800 21.600 | 21.600 |
| JUN | 14.500 | 20.500 | | |
| JUL | 16.900 | 23.300 | 23.500 | 23.500 |
| AUG | | 22.300 | - | • |
| SEP | 17.200 16.800 | 23.800 | 49.500 | 53.600 |
| OCT . | 17.200 | 22.600 22.700 | 54.400 | 54.800 |
| DEC | 18.300 | 24.400 | 23.000 24.600 | 23.000 24.000 |
| | | | | 24.000 |
| COLOUR (H | IZU) | | DET'N LIMIT = 0.5 | GUIDELINE = 5 (A3) |
| MAR | | 3.500 | | . 5.000 |
| APR | 16.000 | 6.000 | 6.000 | 6.500 |
| MAY | 14.500 | 7.000 | 5.500 | 5.500 |
| JUN | .14.000 | 8.000 | | |
| JUL | 10.500 | 5.500 | 4.000 | 4.500 |
| AUG SEP | 8.500 | 2.500 | 1 000 -7 | - F00 -T |
| OCT | 11.000 | 3,500 | 1.000 <t 1.000 <t< td=""><td>.500 <t< td=""></t<></td></t<></t | .500 <t< td=""></t<> |
| NOV | 10 000 | 4,000 | 4,500 <1 | 4.500 |
| DEC | 12.500 | 4.000 | 4.500 | 4.000 |
| | | | 71300 | ****** |

WATER TREATMENT PLANT

TREATED RAW SITE 1 STANDING FREE FLOW CONDUCTIVITY (UNHO/CM) GUIDELINE = 400 (F2) DET'N LIMIT = 1. MAR 584 580 596 APR 590 591 571 590 MAY 543 558 228 557 JUN 528 539 JUL 540 555 560 559 537 ALIG SEP 526 542 676 700 698 697 DCT 537 553 NOV 595 591 577 591 DEC 596 618 613 614 DISS ORG CARBON (MG/L DET'N LIMIT = .100 GUIDELINE = 5.0 (A3) MAR 3.500 2.800 3.000 APR 3.600 3.500 .. 3.700 3.400 3.700 HAY 3.700 3.400 3.400 3.700 JUN 3.600 2.900 JUL 2,900 2.800 2.800 AUG 1.700 1.900 1.800 1.900 2.400 SEP 2.200 1.300 1.100 2.500 .800 .600 DOT 2.000 NOV 3.300 3.100 3.300 3.000 NOV 3.300 DEC 3.400 3.000 3.000 3.200 FLUORIDE (MG/L) DET'N LIMIT = 0.01 GUIDELINE = 2.4 (A1) MAR .080 .980 1.000 .100 APR .760 1.260 .760 HAY .120 1.060 1.280 1.280 1.020 JUN -100 HIL .080 1.300 1,300 .980 AUG .060 SEP 1.360 1,420 .980 .100 OCT 1.020 1,440 1,440 .280 NOV .120 .720 .320 DEC .100 1.260 .740 .660 ------HARDNESS (MG/L) DET'N LIMIT = 0.5 GUIDELINE = 80-100 (A4)

293.000

276.600

283,000

267.200

304.000

303.100

321.000 302.000

MAR

APR

MAY

JUN

JUL

AUG

SEP

299.000

288.000

278.300

262.700

286.000

268.800

269.000

OCT 276.000 NOV 301.000 DEC 311.600

284.000

276.900

298.000

264.300

282.000

269.300

268.000

280.000 302.000

306.400

Page 28

296.000

297.000

275.300

278,000

269.800

308.000

316,000 294.000

318.500

DISTRIBUTION SYSTEM

WATER TREATMENT PLANT

| RAW | | TREATED | SITE 1 | | |
|-----------|------------------|---------|---------------------|----------------------|--|
| | | | | FREE FLOW | |
| IONCAL (| (DMNSLESS) | | DET'N LIHIT = N/A | GUIDELINE = N/A | |
| MAR | .788 | 1.096 | | .359 | |
| APR | 4.047 | .072 | 2.215 | .290 | |
| HAY | 1.266 | .359 | 2.285 | 1.795 | |
| JUN | 1.691 | .633 | | | |
| JUL | 2.813 | 2.761 | 2.054 | 1.235 | |
| AUG | 3.732 | 3.743 | 2.335 | 3.028 | |
| SEP | 1.581 | 2.321 | 1.129 | .021 | |
| OCT | 2.680 | 4.265 | 3.951 | 1.937 | |
| NOV | 2.897 | 3.442 | 2.560 | .345 | |
| DEC | 2.338 | .754 | .228 | 4.496 | |
| LANGELIER | RS INDEX (DMNSLE | | . DET'N LIMIT = N/A | GUIDELINE = N/A | |
| MAR | 1.186 | 1,237 | | 1.134 | |
| APR | 1.261 | 1.224 | 1.217 | 1.222 | |
| MAY | 1.225 | 1.166 | 1.208 | 1.123 | |
| JUN | 1.081 | 1.030 | | | |
| JUL | 1.266 | 1.227 | 1.231 | 1.234 | |
| AUG | 1.074 | 1.051 | 1.053 | 1.069 | |
| SEP | 1.045 | 1.046 | 1.138 | 1.123 | |
| OCT | 1.178 | 1.147 | 1.211 | 1.218 | |
| NOV | 1.185 | 1.198 | 1.202 | 1.204 | |
| DEC | 1.258 | 1.189 | 1.191 | 1.211 | |
| MAGNESIUM | (MG/L) | | DET'N LIMIT = 0.1 | GUIDELINE = 30 (F2) | |
| MAR | 14.900 | 15,100 | | 14,800 | |
| APR | 14.400 | 14.300 | 14.200 | 14.200 | |
| HAY | 13.700 | 13.800 | 13.700 | 13.600 | |
| JUN | 14.100 | 14.350 | | | |
| JUL | 14.900 | 14.600 | 14.600 | 14.400 | |
| AUG | 15.550 | 15.700 | 15.350 | 15.250 | |
| SEP | 14.400 | 14.100 | 16.900 | 17.200 | |
| OCT | 14.400 | 14.900 | 18.600 | 18.200 | |
| NOV | 14.900 15.450 | 15.000 | 14.800 | 14.800 | |
| DEC | 13.430 | 15.150 | 15.200 | 15.400 | |
| SODIUM (M | IG/L) | | DET N LIMIT = 0.2 | GUIDELINE = 200 (A4) | |
| MAR | 8.000 | 10.400 | | 9.700 | |
| APR | 7.400 | 9.400 | 10.200 | 10.600 | |
| MAY | 8.500 | 10.300 | 11.100 | 11.300 | |
| JUN | 7.900 | 10.400 | | | |
| JUL | 8.400 | 11.400 | 11.600 | 11.800 | |
| AUG. | • | 11.600 | • | • | |
| SEP | 8.800 | 12.200 | 24.000 | 25.400 | |
| OCT | 9.200 | 11.400 | 25.200 | 25.200 | |
| NOV | 8.600 | 11.200 | 11.200 | 11.000 | |
| DEC | 8.600 | 11.400 | 11.600 | 11.300 | |

DISTRIBUTION SYSTE

WATER TREATMENT PLANT

| RAI | | TREATED | SITE 1 | | |
|-------------|---|---|--|-------------------------------|------|
| | | | STANDING | FREE FLOW | |
| AHHONIUH TO | DTAL (MG/L) | | | GUIDELINE = 0.05 | (F2) |
| MAR | .002 <t< td=""><td>BDL</td><td></td><td>BDL</td><td></td></t<> | BDL | | BDL | |
| APR | BDL | BOL | BDL | BOL | |
| HAY | BDL .014 | .002 <t< td=""><td>.004 <t< td=""><td>.002 <t< td=""><td></td></t<></td></t<></td></t<> | .004 <t< td=""><td>.002 <t< td=""><td></td></t<></td></t<> | .002 <t< td=""><td></td></t<> | |
| JUN | .034 | BDL BDL | | | |
| JUL | .030 | BOL | BOL | BDL | |
| AUG | BDL .064 | .006 <t< td=""><td></td><td></td><td></td></t<> | | | |
| SEP | BDL | BOL | BDL | BDL | |
| OCT | .064 | .010 | .008 <t< td=""><td>BOL</td><td></td></t<> | BOL | |
| NOV | .004 <t< td=""><td>BOL</td><td>BOL</td><td>.004 <t< td=""><td></td></t<></td></t<> | BOL | BOL | .004 <t< td=""><td></td></t<> | |
| | .014 | T> 800. | .010 | | |
| NITRITE (MC | G/L) | | DET'N LIMIT = 0.001 | | (A1) |
| MAR | .020 .017 .020 .024 .051 .001 <t< td=""><td>BDL</td><td></td><td>.002 <t< td=""><td></td></t<></td></t<> | BDL | | .002 <t< td=""><td></td></t<> | |
| APR | .017 | .001 <t< td=""><td>.001 <7</td><td></td><td></td></t<> | .001 <7 | | |
| HAY | .020 | .001 <t< td=""><td>.007</td><td>.002 <t< td=""><td></td></t<></td></t<> | .007 | .002 <t< td=""><td></td></t<> | |
| JUN | .024 | .001 <t .005 .002 <t< td=""><td></td><td></td><td></td></t<></t | | | |
| JUL | .051 | .005 | .003 <t< td=""><td>.003 <t< td=""><td></td></t<></td></t<> | .003 <t< td=""><td></td></t<> | |
| AUG | .001 <t< td=""><td>.002 <t< td=""><td>.029</td><td>. 028</td><td></td></t<></td></t<> | .002 <t< td=""><td>.029</td><td>. 028</td><td></td></t<> | .029 | . 028 | |
| SEP | .005 | .005 | .011 | .006 | |
| OCT | .001 | .UU2 <1 | .001 <1 | BDL | |
| NOV | .094 | BDL | .001 <t< td=""><td>BDL</td><td></td></t<> | BDL | |
| DEC | .025 | BDL .005 | .007 | .006 | |
| | ATES (MG/L) | | DET'N LIMIT = 0.005 | | (A1 |
| MAR | 2.410 | 2.780 | | 2.730 | |
| APR | 2.720 | 2.740 | 2.750 | 2.760 | |
| MAY | 2.050 | 2.050 | 2.140 | 2.160 | |
| MUL | 1.680 | 1.710 | | | |
| JUL | 2.050 | 2.030 | 1.920 | 1.920 | |
| AUG | 2.910 | 2.870 | 2.810 | 2.830 | |
| SEP | 2.570 | 2.180 | 5.150 | 5.430 | |
| OCT | 2.080 | 2.270 | 5.360 | 5.480 | |
| NOA | 1.640 | 1.570 | 1.630 | 1.620 | |
| | 2.480 | 2.440 | 2.580 | . 2.390 | |
| | OT KJELD (MG/L | | DET'N LIMIT = 0.02 | | |
| MAR | .370 | .280 | | .210 | |
| APR | .450 | .370 | .360 | .470 | |
| HAY | .470 | .370 | .350 | .320 | |
| JUN | .540 | .380 | | | |
| JUL | .410 | .360 | .340 | .320 | |
| AUG | .220 | .270 | .490 | .470 | |
| SEP | .340 | .200 | .340 | .160 | |
| OCT | .230 | .200 | .150 | .160 | |
| NOV | .410 | .340 | .400 | .300 | |
| | | | | | |

WATER TREATMENT PLANT

RAW TREATED SITE 1 STANDING FREE FLOW DET'N LIMIT = N/A GUIDELINE = 6.5-8.5(A4) DET'N LIMIT = N/A PH (DMNSLESS) 8.330 8.480 8.370 MAD APR 8.410 8.410 8,410 8.460 8.400 8.370 8.450 8,400 MAY JUN 8.350 8.310 8.470 8,460 .1111 8.480 8.460 8.330 AUG 8.330 8.320 8.360 8.310 8.280 SEP 8.300 8.310 OCT 8.390 8.360 8.370 8.410 8.370 8.360 8,390 NOV 8.400 8.370 DEC 8.350 8.350 -----GUIDELINE = N/A DET N LIMIT = 0.0005 PHOSPHORUS FIL REACT (MG/L) _001 <T .002 APR .001 <T .003 HAY -002 .000 .001 <T JUN .000 <T JUL .004 .000 <T .001 <T AUG .003 SEP .014 BDL .002 .004 OCT NOV .007 .002 <T .001 <T .001 <T DEC DET'N LIMIT = 0.002 GUIDELINE = .40 (F2) PHOSPHORUS TOTAL (MG/L) .010 .005 <T MAR .007 <T APR .013 .018 MAY .016 JUN .022 .011 .023 .012 JUL AUG .006 <T .013 -031 .007 <T SEP OCT .005 <T .004 <T .017 .007 <T NOV .009 <T DEC .005 <T SULPHATE (MG/L) DET'N LIMIT = .200 GUIDELINE = 500 (A3) 77.280 MAR 75.270 77.340 76.800 APR 76.010 74.870 75.980 MAY 64.480 65.100 65.230 65.070 JUN 64.260 64.850 64.360 64.160 JUL 64.050 63.870 AUG 53.050 53.520 53.290 51.930 48.390 46.620 SEP 54.690 54.920 46.330 45.820 OCT 58.070 59.270 69.080 NOV 67.360 68.480 69.390 70.830 72,900 71.750 72,100 DEC

WATER TREATMENT PLANT

| RAW | | TREATED | SITE 1 | | |
|-------------|--------|---------|--------------------|---------------|------|
| | | | STANDING | FREE FLOW | |
| TURBIDITY (| (FTU) | | DET'N LIMIT = 0.05 | GUIDELINE = 1 | (A1) |
| MAR | 2.700 | .420 | | .240 <7 | |
| APR | 3.000 | .610 | .970 | .970 | |
| HAY | 2.700 | 2.300 | .570 | .480 | |
| JUN | 2.700 | 1.800 | | | |
| JUL | 1.900 | 1.500 | 1.400 | 1.400 | |
| AUG | | 2.400 | - | - | |
| SEP | 2.200 | .720 | .910 | .380 | |
| OCT | 1.600 | .790 | .840 | .300 | |
| NOV | 2.300 | .790 | .930 | 1.300 | |
| DEC | 2.400 | .710 | .880 | .790 | |

WATER TREATMENT PLANT

| R | AW | TR | EATED | | SITE 1 | | | | |
|-------------|------------------|--|------------------------------|---|------------------|---|-------------------|-----------|--------|
| | | | | | STANDING | FRE | E FLOW | | |
| ALLMATANINA | | TALS | | | BFT1N 1 1 W T - | 0.40 | CHIPPE | NE - 100 | (4/) |
| ALUMINUM | (UG/L | , | | | DET'N LIMIT = | 0.10 | GOIDEL | INE = 100 | (A4) |
| MAR | 19.000 | | 97.000 | | | | 87.000 | | |
| APR | 23.000 | | 170.000 | | 260.000 | | 210,000 | | |
| MAY | 32.000 | | 530.000 | | 300.000 | | 280.000 | | |
| JUN | 23.000 | | 470.000 | | | | | | |
| JUL | 17.000 | | 200.000 | | 350.000 | | 350.000 | | |
| AUG | 4/ 000 | | 180.000 | | 26.000 | | 24.000 | | |
| SEP | 14.000 | | 190.000 320.000 | | 24.000 | | 20.000 | | |
| NOV | 20.000 | | 320.000 | | 310.000 | | 270.000 | | |
| DEC | 11,000 | | 220.000 | | 150.000 | | 310.000 | | |
| ******** | | | | | | | | | |
| ARSENIC (| UG/L) | | | | DET'N LIMIT = | 0.10 | COLDET | NE = 25 | (A1) |
| MAR | .920 | <1 | .700 | <t< td=""><td></td><td></td><td>.870 <</td><td>eT.</td><td></td></t<> | | | .870 < | eT. | |
| APR | .880 | <t< td=""><td>.880</td><td><t< td=""><td>.930</td><td><t< td=""><td>.610 4</td><td></td><td></td></t<></td></t<></td></t<> | .880 | <t< td=""><td>.930</td><td><t< td=""><td>.610 4</td><td></td><td></td></t<></td></t<> | .930 | <t< td=""><td>.610 4</td><td></td><td></td></t<> | .610 4 | | |
| MAY | .590 | <1 | .710 | <t< td=""><td>.940</td><td><7</td><td>.590 <</td><td></td><td></td></t<> | .940 | <7 | .590 < | | |
| JUN | .850 | <t< td=""><td>.720</td><td><t< td=""><td></td><td></td><td></td><td></td><td></td></t<></td></t<> | .720 | <t< td=""><td></td><td></td><td></td><td></td><td></td></t<> | | | | | |
| JUL | .640 | <1 | .460 | <t< td=""><td>.710</td><td><⊺</td><td>.350 <</td><td></td><td></td></t<> | .710 | <⊺ | .350 < | | |
| AUG | .550 | <া | .730 | <⊺ | .920 | <1 | .890 < | | |
| SEP | .910 .730 | <1 | .720 .460 .730 .480 | <1 <1 | .370 .330 | - | .200 < | | |
| NOV | .590 | | .140 | ~1 | .370 | <t< td=""><td>.260 <</td><td></td><td></td></t<> | .260 < | | |
| DEC | .350 | <t< td=""><td>.190</td><td><1</td><td>DUL</td><td></td><td>.180 <</td><td>ा</td><td></td></t<> | .190 | <1 | DUL | | .180 < | ा | |
| | G/L) | | | | DET'N LIMIT = | | GUIDELI | | (A2) |
| MAR | 54.000 | | 49.000 | | | | 48.000 | | |
| APR | 55.000 | | | | 52.000 | | 51.000 | | |
| MAY | 47.000 | | 52.000 44.000 | | 44.000 | | 43.000 | | |
| JUN | 49.000 | | 50.000 | | | | | | |
| JUL | 52.000 | | 52.000 41.000 | | 52.000 | | 51.000 | | |
| AUG | 45.000 | | | | 40.000 | | 40.000 | | |
| SEP | 46.000 | | 44.000 | | 61.000 | | 62.000 | | |
| NOV | 54.000 58.000 | | 57.000 | | 73.000 | | 65.000 | | |
| DEC | 56.000 | | 54.000 53.000 | | 55.000 56.000 | | 53.000 52.000 | | |
| | | | 33.000 | | 30.000 | | 52.000 | | |
| BORON (UG) | /L) | | | | DET'N LIMIT = 2 | 2.00 | GUIDEL | INE = 500 | 0 (A1) |
| MAR | 32.000 | | 31.000 | | | | 29.000 | | |
| APR | 20.000 | | 20.000 | <t< td=""><td>21.000</td><td></td><td>20.000 <</td><td>т</td><td></td></t<> | 21.000 | | 20.000 < | т | |
| MAY | 26.000 | | 80.000 | | 88.000 | | 87.000 | | |
| JUN | 20.000 | | 19.000 | <t< td=""><td></td><td></td><td></td><td></td><td></td></t<> | | | | | |
| JUL | 31.000 | | 28.000 | | 29.000 | | 22.000 | | |
| AUG | 50.000 | | 47.000 | | 44.000 | | 45.000 | | |
| SEP | 42.000 | -7 | 46.000 | | 28.000 | | 53.000 | | |
| OCT NOV | 20.000 27.000 | | 19.000 | | 22.000 | | 31.000 | | |
| DEC | 19.000 | | 18.000 | | 20.000 | eT. | 20.000 < 17.000 < | | |
| | 17.000 | | 10.000 | | 20,000 | | 17.000 < | | |

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WATER TREATMENT PLANT

| RAW | | TREATED | SITE 1 | |
|----------------|--|---|---|-----------------------|
| | | | STANDING | FREE FLOW |
| BERYLLIUM (UG/ | 'L) | | | GUIDELINE = 6800 (D4) |
| MAR | BDL | BDL | | BOL |
| APR | BDL | BDL | BDL | BOL |
| HAY | BOL | .060 <t< td=""><td>BDL</td><td>.100 <t< td=""></t<></td></t<> | BDL | .100 <t< td=""></t<> |
| JUN | BDL | BDL | | |
| JUL | BDL | BOL | BDL | BOL |
| AUG | BOL | BOL | BDL | BOL |
| SEP | | .090 <t< td=""><td>BOL</td><td>.070 <t< td=""></t<></td></t<> | BOL | .070 <t< td=""></t<> |
| | BOL | | BDL | BOL |
| OCT | BDL | BOL | BDL | BDL |
| NOV | BDL | BOL | | BOL |
| DEC | BDL | BOL | BDL | BUC. |
| CADHIUM (UG/L |) | | DET'N LIMIT = 0.05 | GUIDELINE = 5 (A |
| MAR | BDL | BOL | | BDL |
| APR | BOL | BDL | BDL | BDL |
| HAY | BDL | BDL | BDL | BDL |
| JUN | BDL | BDL | | |
| JUL | BOL | BDL | BDL | BDL |
| | BOL | BOL | BDL | BDL |
| SEP | BDL | BDL | BDL | BDL |
| OCT | BDL | BDL | BDL | BDL |
| NOV | BDL | BOL | .060 <1 | BDL |
| | BDL | BOL | .070 <t< td=""><td>BOL</td></t<> | BOL |
| COBALT (UG/L |) | | DET'N LIMIT = 0.02 | GUIDELINE = N/A |
| MAD | | 201 | | BDL |
| MAR | BDL | BOL BOL | .040 <t< td=""><td>.070 <t< td=""></t<></td></t<> | .070 <t< td=""></t<> |
| APR | .070 <t< td=""><td></td><td></td><td>.080 <t< td=""></t<></td></t<> | | | .080 <t< td=""></t<> |
| MAY | .230 <t< td=""><td>.100 <t< td=""><td></td><td></td></t<></td></t<> | .100 <t< td=""><td></td><td></td></t<> | | |
| | .030 <t< td=""><td>.110 <t< td=""><td></td><td>070 -</td></t<></td></t<> | .110 <t< td=""><td></td><td>070 -</td></t<> | | 070 - |
| | .200 <t< td=""><td>.120 <t< td=""><td>.240 <7</td><td>.270 <t< td=""></t<></td></t<></td></t<> | .120 <t< td=""><td>.240 <7</td><td>.270 <t< td=""></t<></td></t<> | .240 <7 | .270 <t< td=""></t<> |
| AUG | BDL | BOL | BOL | BOL |
| | .080 <t< td=""><td>BDL</td><td>.120 <t< td=""><td>.100 <t< td=""></t<></td></t<></td></t<> | BDL | .120 <t< td=""><td>.100 <t< td=""></t<></td></t<> | .100 <t< td=""></t<> |
| | .070 <t< td=""><td>.040 <t< td=""><td></td><td>.050 <t< td=""></t<></td></t<></td></t<> | .040 <t< td=""><td></td><td>.050 <t< td=""></t<></td></t<> | | .050 <t< td=""></t<> |
| NOV | .030 <t< td=""><td>BOL</td><td>BDL</td><td>BOL</td></t<> | BOL | BDL | BOL |
| DEC | | .160 <t< td=""><td></td><td></td></t<> | | |
| CHROHIUM (UG/L | | | DET'N LIMIT = 0.50 | |
| MAR | 2.500 <t< td=""><td>2.100 <t< td=""><td></td><td>1.900 <t< td=""></t<></td></t<></td></t<> | 2.100 <t< td=""><td></td><td>1.900 <t< td=""></t<></td></t<> | | 1.900 <t< td=""></t<> |
| APR | BDL | BOL | BOL | BOL |
| | .570 <t< td=""><td>3.800 <t< td=""><td>4.600 <t< td=""><td>4.100 <t< td=""></t<></td></t<></td></t<></td></t<> | 3.800 <t< td=""><td>4.600 <t< td=""><td>4.100 <t< td=""></t<></td></t<></td></t<> | 4.600 <t< td=""><td>4.100 <t< td=""></t<></td></t<> | 4.100 <t< td=""></t<> |
| JUN | BOL | BDL | | |
| | 3.100 <t< td=""><td>2.900 <t< td=""><td></td><td>1.300 <t< td=""></t<></td></t<></td></t<> | 2.900 <t< td=""><td></td><td>1.300 <t< td=""></t<></td></t<> | | 1.300 <t< td=""></t<> |
| | 4.500 <t< td=""><td>4.000 <t< td=""><td></td><td>3.700 <t< td=""></t<></td></t<></td></t<> | 4.000 <t< td=""><td></td><td>3.700 <t< td=""></t<></td></t<> | | 3.700 <t< td=""></t<> |
| | 3.800 <t< td=""><td>4.500 <t< td=""><td></td><td>5.200</td></t<></td></t<> | 4.500 <t< td=""><td></td><td>5.200</td></t<> | | 5.200 |
| OCT | BDL | BOL | BOL | 7.100 |
| UCI | 3.300 <t< td=""><td>BDL</td><td>3.100 <7</td><td>1.100 <t< td=""></t<></td></t<> | BDL | 3.100 <7 | 1.100 <t< td=""></t<> |
| NONE | | | | 1.100 \ |
| NOV | BOL | BOL | BOL | BOL |

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WATER TREATMENT PLANT

| R | AW | TREATED | SITE 1 | | |
|-----------|--|---|--|---|------|
| | | | STANDING | FREE FLOW | |
| COPPER (U | G/L) | | | GUIDELINE = 1000 | (A3) |
| MAR | .720 <t< td=""><td>1.400 <t< td=""><td></td><td>2.700 <t< td=""><td></td></t<></td></t<></td></t<> | 1.400 <t< td=""><td></td><td>2.700 <t< td=""><td></td></t<></td></t<> | | 2.700 <t< td=""><td></td></t<> | |
| APR | .720 <t< td=""><td>1.100 <t< td=""><td>5.700</td><td>4.000 <t< td=""><td></td></t<></td></t<></td></t<> | 1.100 <t< td=""><td>5.700</td><td>4.000 <t< td=""><td></td></t<></td></t<> | 5.700 | 4.000 <t< td=""><td></td></t<> | |
| MAY | 1.100 <t< td=""><td>1.700 <t< td=""><td>6.500</td><td>4.900 <t< td=""><td></td></t<></td></t<></td></t<> | 1.700 <t< td=""><td>6.500</td><td>4.900 <t< td=""><td></td></t<></td></t<> | 6.500 | 4.900 <t< td=""><td></td></t<> | |
| JUN | .760 <t< td=""><td>3.300 <t< td=""><td></td><td></td><td></td></t<></td></t<> | 3.300 <t< td=""><td></td><td></td><td></td></t<> | | | |
| JUL | 1.000 <t< td=""><td>3.700 <t< td=""><td>3.700 <t< td=""><td>3.600 <t< td=""><td></td></t<></td></t<></td></t<></td></t<> | 3.700 <t< td=""><td>3.700 <t< td=""><td>3.600 <t< td=""><td></td></t<></td></t<></td></t<> | 3.700 <t< td=""><td>3.600 <t< td=""><td></td></t<></td></t<> | 3.600 <t< td=""><td></td></t<> | |
| AUG | • 1 | .550 <t .700 <t< td=""><td>•</td><td>•</td><td></td></t<></t | • | • | |
| SEP | .810 <t< td=""><td>.700 <t< td=""><td></td><td>4.800 <t< td=""><td></td></t<></td></t<></td></t<> | .700 <t< td=""><td></td><td>4.800 <t< td=""><td></td></t<></td></t<> | | 4.800 <t< td=""><td></td></t<> | |
| OCT | 2.500 <t< td=""><td></td><td>11.000</td><td>6.800</td><td></td></t<> | | 11.000 | 6.800 | |
| NOV | 1.600 <t< td=""><td></td><td>12.000</td><td>4.300 <t< td=""><td></td></t<></td></t<> | | 12.000 | 4.300 <t< td=""><td></td></t<> | |
| DEC | 1.600 <t< td=""><td>2.600 <t< td=""><td>16.000</td><td>8.700</td><td></td></t<></td></t<> | 2.600 <t< td=""><td>16.000</td><td>8.700</td><td></td></t<> | 16.000 | 8.700 | |
| | L) | | DET'N LIMIT = 6.00 | GUIDELINE = 300 | (A3) |
| MAR | 210,000 | 7,500 <t< td=""><td></td><td>BDL</td><td></td></t<> | | BDL | |
| APR | 200.000 | 10,000 <t< td=""><td></td><td>58.000 <t< td=""><td></td></t<></td></t<> | | 58.000 <t< td=""><td></td></t<> | |
| MAY | 240.000 | 110,000 | | | |
| JUN | 190.000 | 97.000 | | | |
| JUL | 240.000 | 22.000 <t< td=""><td></td><td>79.000</td><td></td></t<> | | 79.000 | |
| AUG | • | 14.000 <t< td=""><td>-</td><td>•</td><td></td></t<> | - | • | |
| SEP | 200.000 | 25.000 <t< td=""><td></td><td>BDL</td><td></td></t<> | | BDL | |
| OCT | 190.000 | 33.000 <t< td=""><td>8.000 <t< td=""><td>. BDL</td><td></td></t<></td></t<> | 8.000 <t< td=""><td>. BDL</td><td></td></t<> | . BDL | |
| NOV | 170.000 | 50.000 <t< td=""><td>44.000 <t< td=""><td>34.000 <t 34.000 <t< td=""><td></td></t<></t </td></t<></td></t<> | 44.000 <t< td=""><td>34.000 <t 34.000 <t< td=""><td></td></t<></t </td></t<> | 34.000 <t 34.000 <t< td=""><td></td></t<></t | |
| DEC | 150.000 | 26.000 <t< td=""><td>20.000 <t< td=""><td>34.000 <t< td=""><td></td></t<></td></t<></td></t<> | 20.000 <t< td=""><td>34.000 <t< td=""><td></td></t<></td></t<> | 34.000 <t< td=""><td></td></t<> | |
| | UG/L) | | | GUIDELINE = 1 | (A1) |
| MAR | BDL | BDL · | | | |
| APR | BDL | BDL | • | • | |
| HAY | BDL | BDL | | | |
| JUN | BDL | | | | |
| JUL | BDL | · BDL BDL | | | |
| AUG | BOL | PNI | | • | |
| SEP | | BOL | • | | |
| OCT | BDL | BOL | | | |
| NOV | .060 <t< td=""><td>.050 <t< td=""><td>1 .</td><td>•</td><td></td></t<></td></t<> | .050 <t< td=""><td>1 .</td><td>•</td><td></td></t<> | 1 . | • | |
| DEC | .030 <t< td=""><td>BOL</td><td>•</td><td>•</td><td></td></t<> | BOL | • | • | |
| | (UG/L) | | DET'N LIMIT = 0.05 | GUIDELINE = 50 | (A3) |
| MAR | 70.000 | 1,500 | | 1.200 | |
| APR | 91,000 | 2,900 | 9,400 | 7,400 | |
| MAY | 110,000 | 29.000 | 11.000 | 10.000 | |
| JUN | 76.000 | 37,000 | ,,,,,,, | 101000 | |
| JUL | 120.000 | 11.000 | 22.000 | 22.000 | |
| AUG | | 9.100 | | • | |
| SEP | 210.000 | 47.000 | 1.900 | 2.000 | |
| OCT | 79.000 | 11.000 | 1.700 | .900 | |
| NOV | 55.000 | 11.000 | 5.700 | 4.500 | |
| DEC | 22.000 | 3.700 | 1.700 | 3.400 | |

WATER TREATMENT PLANT

| | RAW | | TREATED | | SITE 1 | | | |
|---------|-------------|--|----------------------|--|----------------------|---|-------------------------------|---------------|
| | | | | | STANDING | | FREE FLOW | |
| MOLYBDE | NUM (UG/L |) | | | DET'N LIMIT = | | GUIDELINE | = N/A |
| HAR | 910 | | .960 | | | | .980 | |
| APR | | | .870 | | .920 | | .960 | |
| HAY | . 870 | | .850 | | 1,000 | | .850 | |
| JUN | .840 | | 800 | | | | | |
| JUL | | | .800 .980 | | .650 | | .610 | |
| AUG | .420 | <t< td=""><td>.470</td><td><t< td=""><td></td><td><t< td=""><td>.390 <t< td=""><td></td></t<></td></t<></td></t<></td></t<> | .470 | <t< td=""><td></td><td><t< td=""><td>.390 <t< td=""><td></td></t<></td></t<></td></t<> | | <t< td=""><td>.390 <t< td=""><td></td></t<></td></t<> | .390 <t< td=""><td></td></t<> | |
| SEP | .560 | -1 | .510 | | .130 | <t< td=""><td>.180 <t< td=""><td></td></t<></td></t<> | .180 <t< td=""><td></td></t<> | |
| OCT | | | .660 | | .130 | <t< td=""><td>.140 <t< td=""><td></td></t<></td></t<> | .140 <t< td=""><td></td></t<> | |
| NOV | .760 | | 810 | | .870 | | .800 | |
| DEC | .930 | | .860 | | .860 | | .940 | |
| | (UG/L) | | | | DET'N LIMIT = | | | |
| MAR | BOL | | BDL | | | | BDL | |
| APR | | | BDL | | BDL | | BDL | |
| MAY | | | BOL | | BDL | | BDL | |
| JUN | BOL BOL | | BOL BOL | | | | | |
| JUL | 1,300 | <t< td=""><td>1.700</td><td><t< td=""><td>1.500</td><td><t< td=""><td>.290 <t< td=""><td></td></t<></td></t<></td></t<></td></t<> | 1.700 | <t< td=""><td>1.500</td><td><t< td=""><td>.290 <t< td=""><td></td></t<></td></t<></td></t<> | 1.500 | <t< td=""><td>.290 <t< td=""><td></td></t<></td></t<> | .290 <t< td=""><td></td></t<> | |
| AUG | BOL | | .440 BDL 2.300 | <t< td=""><td>.380 BDL 2.600</td><td><t< td=""><td>.610 <t< td=""><td></td></t<></td></t<></td></t<> | .380 BDL 2.600 | <t< td=""><td>.610 <t< td=""><td></td></t<></td></t<> | .610 <t< td=""><td></td></t<> | |
| SEP | BOL | | BDL | | BDL | | BDL | |
| OCT | 2,300 | | 2.300 | | 2.600 | | 2.100 | |
| NOV | BOL | | BOL | | RNI | | BOL | |
| | BDL .710 | <t< td=""><td>.610</td><td><1</td><td>.840</td><td><1</td><td>.290 <t< td=""><td></td></t<></td></t<> | .610 | <1 | .840 | <1 | .290 <t< td=""><td></td></t<> | |
| | IG/L) | | | | | | GUIDELINE | |
| MAR | .090 | <t< td=""><td>200</td><td><t< td=""><td></td><td></td><td>.130 <t< td=""><td></td></t<></td></t<></td></t<> | 200 | <t< td=""><td></td><td></td><td>.130 <t< td=""><td></td></t<></td></t<> | | | .130 <t< td=""><td></td></t<> | |
| APR | .170 | <t< td=""><td>.290 .170 .380</td><td><t< td=""><td>.190 .340</td><td><t< td=""><td>.240 <t< td=""><td></td></t<></td></t<></td></t<></td></t<> | .290 .170 .380 | <t< td=""><td>.190 .340</td><td><t< td=""><td>.240 <t< td=""><td></td></t<></td></t<></td></t<> | .190 .340 | <t< td=""><td>.240 <t< td=""><td></td></t<></td></t<> | .240 <t< td=""><td></td></t<> | |
| MAY | | <t< td=""><td>.380</td><td><t< td=""><td>.340</td><td><t< td=""><td>.290 <1</td><td></td></t<></td></t<></td></t<> | .380 | <t< td=""><td>.340</td><td><t< td=""><td>.290 <1</td><td></td></t<></td></t<> | .340 | <t< td=""><td>.290 <1</td><td></td></t<> | .290 <1 | |
| JUN | .150 | <t< td=""><td>1 500</td><td></td><td></td><td></td><td></td><td></td></t<> | 1 500 | | | | | |
| JUL | .340 | | 1.000 | | .300 | <t< td=""><td>.310 <t< td=""><td></td></t<></td></t<> | .310 <t< td=""><td></td></t<> | |
| AUG | 370 | <t< td=""><td>BDL .120</td><td></td><td>.090</td><td><t< td=""><td>_130 <t< td=""><td></td></t<></td></t<></td></t<> | BDL .120 | | .090 | <t< td=""><td>_130 <t< td=""><td></td></t<></td></t<> | _130 <t< td=""><td></td></t<> | |
| SEP | .110 | <t< td=""><td>.120</td><td><t< td=""><td>.310</td><td><t< td=""><td>.350 <t< td=""><td></td></t<></td></t<></td></t<></td></t<> | .120 | <t< td=""><td>.310</td><td><t< td=""><td>.350 <t< td=""><td></td></t<></td></t<></td></t<> | .310 | <t< td=""><td>.350 <t< td=""><td></td></t<></td></t<> | .350 <t< td=""><td></td></t<> | |
| OCT | .900 | | 2.500 | | 2.400 | | .590 | |
| NOV | | | | | 1.800 | | .380 <t< td=""><td></td></t<> | |
| | .160 | | .420 | <t< td=""><td>1.300</td><td></td><td>.220 <t< td=""><td></td></t<></td></t<> | 1.300 | | .220 <t< td=""><td></td></t<> | |
| | Y (UG/L | | | | DET'N LIMIT = | 0.05 | GUIDELI | NE = 146 (D4) |
| MAR | .390 | <t< td=""><td>.210</td><td><1</td><td></td><td></td><td>.350 <t< td=""><td></td></t<></td></t<> | .210 | <1 | | | .350 <t< td=""><td></td></t<> | |
| APR | | <t< td=""><td>.360</td><td></td><td></td><td></td><td>.470 <t< td=""><td></td></t<></td></t<> | .360 | | | | .470 <t< td=""><td></td></t<> | |
| HAY | | | .220 | | | | .230 <t< td=""><td></td></t<> | |
| JUN | | <1 | .290 | | | | • | |
| JUL | .310 | | .330 | | .430 | | .390 <t< td=""><td></td></t<> | |
| AUG | .410 | <t< td=""><td>.400</td><td><t< td=""><td>.270</td><td></td><td>.380 <t< td=""><td></td></t<></td></t<></td></t<> | .400 | <t< td=""><td>.270</td><td></td><td>.380 <t< td=""><td></td></t<></td></t<> | .270 | | .380 <t< td=""><td></td></t<> | |
| SEP | | <t< td=""><td>.320</td><td></td><td>.430</td><td></td><td>.460 <t< td=""><td></td></t<></td></t<> | .320 | | .430 | | .460 <t< td=""><td></td></t<> | |
| DCT | 250 | 49 | .340 | | .420 | | .390 <t< td=""><td></td></t<> | |
| NOA | | <t< td=""><td>.280</td><td></td><td>.400</td><td></td><td>.300 <t< td=""><td></td></t<></td></t<> | .280 | | .400 | | .300 <t< td=""><td></td></t<> | |
| DEC | .310 | -1 | .320 | | .390 | | .350 <t< td=""><td></td></t<> | |

WATER TREATMENT PLANT

| | RAW | TREATED | SITE 1 | | |
|---|--|--|--|--|------|
| | | | STANDING | FREE FLOW | |
| SELENIUM | (UG/L) | | DET'N'LIMIT = 1.00 | GUIDELINE = 10 | (A1) |
| MAR | BOL | BDL | • | 1.300 <t< td=""><td></td></t<> | |
| APR | BDL | BOL | 1.100 <t< td=""><td>1.100 <t< td=""><td></td></t<></td></t<> | 1.100 <t< td=""><td></td></t<> | |
| MAY | BDL | BDL | 1.900 <t< td=""><td>2.100 <t< td=""><td></td></t<></td></t<> | 2.100 <t< td=""><td></td></t<> | |
| JUN | BDL | 1.100 <t< td=""><td></td><td></td><td></td></t<> | | | |
| JUL | 1.500 <t< td=""><td>2.100 <t< td=""><td>1.100 <t< td=""><td>1.500 <t< td=""><td></td></t<></td></t<></td></t<></td></t<> | 2.100 <t< td=""><td>1.100 <t< td=""><td>1.500 <t< td=""><td></td></t<></td></t<></td></t<> | 1.100 <t< td=""><td>1.500 <t< td=""><td></td></t<></td></t<> | 1.500 <t< td=""><td></td></t<> | |
| AUG | BOL | BOL | BDL | BDL | |
| SEP | 1.100 <t< td=""><td>BOL</td><td>BDL</td><td>BDL</td><td></td></t<> | BOL | BDL | BDL | |
| OCT | BDL | BDL | 1.300 <t< td=""><td>1.800 <t< td=""><td></td></t<></td></t<> | 1.800 <t< td=""><td></td></t<> | |
| NOV | BOL | BDL | BDL | BDL | |
| DEC | BDL | BOL | BDL | BDL | |
| STRONTIU | M (UG/L) | | DET'N LIMIT = 0.10 | GUIDELINE = N/A | |
| MAR | 230.000 | 230.000 | | 220.000 | |
| APR | 230.000 | 220,000 | 240.000 | 230.000 | |
| MAY | 210.000 | 210,000 | 200.000 | 200.000 | |
| JUN | 210,000 | 210.000 | | | |
| JUL | 190.000 | 180.000 | 190.000 | 180.000 | |
| AUG | 160.000 | 160.000 | 150.000 | 150.000 | |
| SEP | 180.000 | 180.000 | 150.000 | 150.000 | |
| OCT | 200.000 | 210.000 | 170.000 | 150.000 | |
| NOV | 210.000 | 200.000 | 200.000 | 200.000 | |
| DEC | 230.000 | 220.000 | 220.000 | 220.000 | |
| HUINATIT | (UG/L) | | DET'N LIMIT = 0.50 | GUIDELINE = N/A | |
| | 44 000 | 11.000 | | 44 000 | |
| MAR | 11.000 | | | 11.000 | |
| APR | 10.000 | | 11.000 | 11.000 | |
| | | 10.000 | | | |
| APR | 10.000 | | 20.000 | 11.000 | |
| APR MAY | 10.000 | 10.000 21.000 | | 11.000 | |
| APR MAY JUN JUL AUG | 10.000 22.000 18.000 19.000 14.000 | 10.000 21.000 17.000 | 20.000 | 11.000 20.000 | |
| APR MAY JUN JUL AUG SEP | 10.000 22.000 18.000 19.000 | 10.000 21.000 17.000 20.000 | 20.000 | 11.000 20.000 21.000 | |
| APR MAY JUN JUL AUG SEP OCT | 10.000 22.000 18.000 19.000 14.000 21.000 6.600 | 10.000 21.000 17.000 20.000 15.000 20.000 6.100 | 20.000 20.000 15.000 23.000 7.300 | 11.000 20.000 21.000 14.000 24.000 6.500 | |
| APR MAY JUN JUL AUG SEP OCT NOV | 10.000 22.000 18.000 19.000 14.000 21.000 6.600 9.800 | 10.000 21.000 17.000 20.000 15.000 20.000 6.100 9.900 | 20.000 20.000 15.000 23.000 7.300 9.700 | 11.000 20.000 21.000 14.000 24.000 6.500 8.900 | |
| APR MAY JUN JUL AUG SEP OCT | 10.000 22.000 18.000 19.000 14.000 21.000 6.600 | 10.000 21.000 17.000 20.000 15.000 20.000 6.100 | 20.000 20.000 15.000 23.000 7.300 | 11.000 20.000 21.000 14.000 24.000 6.500 | |
| APR MAY JUN JUL AUG SEP OCT NOV DEC | 10.000 22.000 18.000 19.000 14.000 21.000 6.600 9.800 | 10.000 21.000 17.000 20.000 15.000 20.000 6.100 9.900 | 20.000 20.000 15.000 23.000 7.300 9.700 | 11.000 20.000 21.000 14.000 24.000 6.500 8.900 | (04) |
| APR MAY JUN JUL AUG SEP OCT NOV DEC THALLIUM HAR | 10.000 22.000 18.000 19.000 14.000 21.000 6.600 9.800 12.000 | 10.000 21.000 17.000 20.000 15.000 20.000 6.100 9.900 12.000 | 20.000 20.000 15.000 23.000 7.300 9.700 11.000 | 11.000 20.000 21.000 14.000 24.000 6.500 8.900 11.000 | (D4) |
| APR MAY JUN JUL AUG SEP OCT NOV DEC THALLIUM MAR APR | 10.000 22.000 18.000 19.000 14.000 21.000 6.600 9.800 12.000 (UG/L) | 10.000 21.000 17.000 20.000 15.000 20.000 6.100 9.900 12.000 | 20.000 20.000 15.000 23.000 7.300 9.700 11.000 DET'N LIMIT = 0.05 | 11.000 20.000 21.000 14.000 24.000 6.500 8.900 11.000 GUIDELINE = 13 | (04) |
| APR MAY JUN JUL AUG SEP OCT NOV DEC THALL IUM MAR APR MAY | 10.000 22.000 18.000 19.000 14.000 21.000 6.600 9.800 12.000 (UG/L) | 10.000 21.000 17.000 20.000 15.000 20.000 6.100 9.900 12.000 | 20.000 20.000 15.000 23.000 7.300 9.700 11.000 DET'N LIMIT = 0.05 | 11.000 20.000 21.000 14.000 6.500 8.900 11.000 GUIDELINE = 13 | (04) |
| APR MAY JUN JUL AUG SEP OCT NOV DEC THALLIUM MAR APR MAY JUN | 10.000 22.000 18.000 19.000 14.000 21.000 6.600 9.800 12.000 (UG/L) BDL BDL BDL BDL BDL BDL | 10.000 21.000 17.000 20.000 15.000 20.000 6.100 9.900 12.000 BDL BDL BDL BDL | 20.000 20.000 15.000 23.000 7.300 9.700 11.000 DET'N LIMIT = 0.05 | 11.000 20.000 21.000 14.000 24.000 6.500 8.900 11.000 GUIDELINE = 13 | (D4) |
| APR MAY JUN AUG SEP OCT NOV DEC THALL IUM HAR APR MAY JUN JUL | 10.000 22.000 18.000 19.000 14.000 21.000 6.600 9.800 12.000 (UG/L) BDL BDL BDL BDL BDL BDL BDL | 10.000 21.000 17.000 20.000 15.000 20.000 6.100 9.900 12.000 BDL BDL BDL BDL BDL BDL | 20.000 20.000 15.000 23.000 7.300 9.700 11.000 DET'N LIMIT = 0.05 | 11.000 20.000 21.000 14.000 24.000 6.500 8.900 11.000 GUIDELINE = 13 BDL .060 <t BDL</t | (D4) |
| APR MAY JUL AUG SEP OCT NOV DEC THALLIUM MAR APR MAY JUL AUG AUG | 10.000 22.000 18.000 19.000 14.000 21.000 6.600 9.800 12.000 (UG/L BDL BDL BDL BDL BDL BDL BDL BDL BDL B | 10.000 21.000 17.000 20.000 15.000 6.100 9.900 12.000 BDL BDL BDL BDL BDL BDL | 20.000 20.000 15.000 23.000 7.300 9.700 11.000 DET'N LIMIT = 0.05 BDL BDL BDL BDL | 11.000 20.000 21.000 14.000 24.000 6.500 8.900 11.000 GUIDELINE = 13 BDL .060 <t BDL BDL</t | (04) |
| APR MAY JUL AUG SEP OCT NOV DEC THALLIUM MAR APR APR APY JUN JUL AUG SEP | 10.000 22.000 18.000 19.000 14.000 21.000 6.600 9.800 12.000 (UG/L) BDL BDL BDL BDL BDL BDL BDL BDL BDL BD | 10.000 21.000 17.000 20.000 15.000 20.000 6.100 9.900 12.000 BDL BDL BDL BDL BDL BDL BDL BDL BDL | 20.000 20.000 15.000 23.000 7.300 9.700 11.000 DET'N LIMIT = 0.05 BDL BDL BDL BDL BDL BDL | 11.000 20.000 21.000 14.000 6.500 8.900 11.000 GUIDELINE = 13 BDL .060 <t BDL BDL BDL</t | (D4) |
| APR MAY JUN JUL AUG SEP OCT NOV DEC THALL IUM MAR APR MAY JUN JUL AUG SEP OCT | 10.000 22.000 18.000 19.000 14.000 21.000 6.600 9.800 12.000 (UG/L) BDL BDL BDL BDL BDL BDL BDL BDL BDL BD | 10.000 21.000 17.000 20.000 15.000 20.000 6.100 9.900 12.000 BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL | 20.000 20.000 15.000 23.000 7.300 9.700 11.000 DET'N LIMIT = 0.05 BDL BDL BDL BDL BDL BDL BDL BDL BDL BD | 11.000 20.000 21.000 14.000 24.000 6.500 8.900 11.000 GUIDELINE = 13 BDL .060 <t BDL BDL BDL BDL BDL</t | (D4) |
| APR MAY JUL AUG SEP OCT NOV DEC THALLIUM MAR APR MAY JUN JUL AUG SEP | 10.000 22.000 18.000 19.000 14.000 21.000 6.600 9.800 12.000 (UG/L) BDL BDL BDL BDL BDL BDL BDL BDL BDL BD | 10.000 21.000 17.000 20.000 15.000 20.000 6.100 9.900 12.000 BDL BDL BDL BDL BDL BDL BDL BDL BDL | 20.000 20.000 15.000 23.000 7.300 9.700 11.000 DET'N LIMIT = 0.05 BDL BDL BDL BDL BDL BDL | 11.000 20.000 21.000 14.000 6.500 8.900 11.000 GUIDELINE = 13 BDL .060 <t BDL BDL BDL</t | (D4) |

WATER TREATMENT PLANT

TREATED SITE 1 STANDING FREE FLOW DET'N LIMIT = 0.05 GUIDELINE = 100 (A1) URANIUM (UG/L 1.500 1.600 1.400 1.600 APR 1.700 1,600 1,600 1.100 1.200 MAY 1.100 1.300 .970 JUN 1.100 -910 .900 .980 JUL .940 .530 .680 .680 AUG .610 .630 .400 <T .430 <T SEP .670 .520 .890 .780 .580 OCT 1.100 NOV 1,100 1.100 1.000 1.400 1.300 1.400 DEC 1.300 VANADIUM (UG/L) DET N LIMIT = 0.05 GUIDELINE = N/A .310 <T .330 <T .410 <T MAR .470 <T .500 <T .580 .540 APR .420 <T .310 <T .240 <T .220 <T MAY .290 <T .370 <T JUN .360 <T .370 <T .530 .420 <T JUL .270 <T .300 <T .400 <T .390 <T AUG .390 <T .140 <T .220 <T .210 <T SEP .330 <T .390 <T .270 <T .310 <T OCT NOV · .250 <T .150 <T .110 <T .130 <T DEC .100 <T BDL BOL RDI GUIDELINE = 5000 (A3) DET'N LIMIT = 0.20 ZINC (UG/L) 3.100 2.900 2.900 MAR APR 3.100 3.000 2.800 2.500 4.400 MAY 5.300 2.800 5.300 JUN 3.500 3.400 4.500 4.200 JUL 3.800 3.700 AUG 1.800 <T 3.400 4.800 5.400 SEP 3.600 OCT 11,000 2,500 12,000 4.500 4.900 4.100 15.000 NOV 3.600 DEC 6.000 3,500 17,000 4.600

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TABLE 5
DRINKING WATER SURVEILLANCE PROGRAM DELHI WTP 1990

WATER TREATMENT PLANT

| STANDING FREE FLOW CHLOROAROMATICS 236 TRICHLOROTOLUENE (NG/L) DET'N LIMIT = 5.000 GUIDELINE | |
|--|-------|
| | |
| 236 TRICHLOROTOLUENE (NG/L) DET'N LIMIT = 5,000 GUIDELINE | |
| | = N/A |
| MAR BDL BDL . BDL | |
| APR BOL BOL | |
| MAY BDL BDL . BDL | |
| JUN BOL BOL . | |
| JUL BOL BOL BOL BOL | |
| AUG BDL BDL . BDL | |
| SEP BOL BOL . BDL | |
| OCT BDL BDL . BDL | |
| NOV BDL BDL . BDL | |
| DEC BDL 35.000 <t .="" bdl<="" td=""><td></td></t> | |

WATER TREATMENT PLANT

| - | NAS | | | TREATED | | | SITE 1 | |
|----------|-------|-----|--|---------|------|-----------------------------------|------------------|----------------------|
| | | | | | | | STANDING | FREE FLOW |
| | | PE | STICIDE | S & PCB | | | | |
| ATRAZINE | (NG/L |) | | | | | DET'N LIMIT = 50 | GUIDELINE = 60000 (A |
| HAR | | BDL | | | BDL | | | |
| APR | | BDL | | | BOL | | | |
| HAY | 60. | 000 | <t< td=""><td>220</td><td>.000</td><td><7</td><td></td><td></td></t<> | 220 | .000 | <7 | | |
| JUN | | BOL | | | BOL | | | |
| JUL | 420. | 000 | <t< td=""><td>80</td><td>.000</td><td><t< td=""><td></td><td></td></t<></td></t<> | 80 | .000 | <t< td=""><td></td><td></td></t<> | | |
| AUG | | BOL | | | BOL | | | |
| SEP | | BOL | | | BOL | | | |
| OCT | | BOL | | | BOL | | | |
| NOV | | BOL | | | BOL | | | |
| DEC | 90. | 000 | <t< td=""><td>. 100</td><td>.000</td><td><t< td=""><td></td><td></td></t<></td></t<> | . 100 | .000 | <t< td=""><td></td><td></td></t<> | | |

TABLE 5
DRINKING WATER SURVEILLANCE PROGRAM DELHI WTP 1990

WATER TREATMENT PLANT

| R | AW | | TREATED - | | SITE 1 | | | |
|-----------|-------|--|-----------|--|--------------------|------|---|------|
| | | | | | STANDING | FREE | FLOW | |
| | | HENOLICS | | | ***************** | | *************************************** | |
| PHENOLICS | (UG/L |) | | | DET'N LIMIT = .200 | | GUIDELINE = 2 | (A4) |
| MAR | .800 | <t< td=""><td>.600</td><td><1</td><td></td><td></td><td></td><td></td></t<> | .600 | <1 | | | | |
| APR | .800 | | .600 | | | | | |
| MAY | BDL | | .400 | | | | | |
| JUN | BDL | | BDL | | | | • | |
| JUL | .400 | <t< td=""><td>.400</td><td><t< td=""><td></td><td></td><td></td><td></td></t<></td></t<> | .400 | <t< td=""><td></td><td></td><td></td><td></td></t<> | | | | |
| AUG | BDL | | .600 | <t< td=""><td></td><td></td><td>•</td><td></td></t<> | | | • | |
| SEP | BDL | | 1.000 | | | | | |
| OCT | 5.400 | | 1.800 | | | * * | | |
| NOV | .600 | <t< td=""><td>.800</td><td><t< td=""><td></td><td></td><td></td><td></td></t<></td></t<> | .800 | <t< td=""><td></td><td></td><td></td><td></td></t<> | | | | |
| DEC | 1.000 | <⊤ . | .600 | <t< td=""><td></td><td></td><td></td><td></td></t<> | | | | |

WATER TREATMENT PLANT DISTRIBUTION SYSTEM

| RAW | | TREATED | SITE 1 | |
|---------------|--------|---|---|-----------------------|
| | | | STANDING | FREE FLOW |
| | VOLAT | ILES | • | |
| BENZENE (UG/L | | | DET'N LIMIT = 0.05 | GUIDELINE = 5 (A1) |
| MAR | BOL | BDL | | BOL |
| APR | BOL | .050 <t< th=""><th></th><th>.050 <7</th></t<> | | .050 <7 |
| MAY | BDL | BDL | | BDL |
| JUN | BDL | BDL | • | • |
| JUL | 118 | BOL | | BOL |
| AUG | BDL | BDL | | .050 <t< th=""></t<> |
| SEP | BDL | BDL | • | BOL |
| OCT | BDL | BDL | • | BOL |
| NOV | BDL | BDL | • | BDL |
| DEC | BDL | BDL | | BOL |
| TOLUENE (UG/L | .) | | DET'N LIMIT = 0.05 | GUIDELINE = 24 (A3) |
| MAR | BDL . | BDL | • | . BDL |
| APR | BOL | BDL | | BDL |
| MAY | BDL | .050 <t< th=""><th></th><th>.150 <t< th=""></t<></th></t<> | | .150 <t< th=""></t<> |
| JUN | BOL | .050 <t< th=""><th>•</th><th></th></t<> | • | |
| JUL | 115 | BOL | | BDL |
| AUG | BOL | .050 <t< th=""><th></th><th>BDL</th></t<> | | BDL |
| SEP | BDL | .200 <t< th=""><th></th><th>BOL</th></t<> | | BOL |
| OCT | BDL | BDL | • | BOL |
| NOV | BOL | BDL | • | BDL |
| DEC | BOL | BDL | | BOL |
| ETHYLBENZENE | (UG/L |) | DET'N LIMIT = 0.05 | GUIDELINE = 2.4 (A3) |
| MAR | BDL | BDL | | BDL |
| APR | BOL | BOL | | .050 <t< th=""></t<> |
| MAY | BDL | .050 <t< th=""><th></th><th>.200 <t< th=""></t<></th></t<> | | .200 <t< th=""></t<> |
| JUN | BOL | .150 <t< th=""><th></th><th></th></t<> | | |
| | . !!\$ | .100 <t< th=""><th></th><th>BDL</th></t<> | | BDL |
| AUG | • | .200 <t< th=""><th></th><th>•</th></t<> | | • |
| SEP | BOL | BDL | | .050 <t< th=""></t<> |
| OCT | BOL | .100 <t< th=""><th>•</th><th>BDL</th></t<> | • | BDL |
| NOV | BDL | .100 <t< th=""><th>•</th><th>.050 <t< th=""></t<></th></t<> | • | .050 <t< th=""></t<> |
| DEC | BDL | , BDL | | BOL |
| O-XYLENE (UG/ | L) | | DET'N LIMIT = 0.05 | GUIDELINE = 300 (A3*) |
| MAR | BDL | BDL | | BDL |
| APR | BOL | BDL | | BDL |
| MAY | BDL | BDL | | BOL |
| JUN | BDL | BDL | • | |
| JUL | IIS | BOL | | 80L |
| AUG | BDL | BOL | • | .050 <t< th=""></t<> |
| SEP | BDL | BOL | | BDL |
| OCT | BDL | BOL | • | BOL |
| NOV | BDL | BOL | • | BOL |
| DEC | BDL | BDL | | BOL |

WATER TREATMENT PLANT

| RA | M | TREATED | SITE 1 | |
|------------|-----------------|---|--------------------|-----------------------|
| | | | STANDING | FREE FLOW |
| STYRENE (L | G/L) | | DET'N LIMIT = 0.05 | GUIDELINE = 100 (D1) |
| MAR | BDL | BDL | | BDL |
| APR | BDL | BOL | • | BOL |
| HAY | BDL | .100 <t< td=""><td>•</td><td>.350 <1</td></t<> | • | .350 <1 |
| JUN | BDL | .250 <t< td=""><td></td><td>.330 <1</td></t<> | | .330 <1 |
| JUL | IIS | .200 <t< td=""><td>•</td><td>.050 <t< td=""></t<></td></t<> | • | .050 <t< td=""></t<> |
| AUG | BDL | .300 <t< td=""><td>•</td><td>.050 <t< td=""></t<></td></t<> | • | .050 <t< td=""></t<> |
| SEP | BDL | BDL | • | BOL |
| OCT | BOL | .150 <t< td=""><td></td><td>BOL</td></t<> | | BOL |
| NOV | BDL | .100 <t< td=""><td>•</td><td>.050 <t< td=""></t<></td></t<> | • | .050 <t< td=""></t<> |
| DEC | BDL | BDL | | BDL |
| | | | | |
| T1,2DICHLO | ROETHYLENE (UG/ | 'L) | DET'N LIMIT = 0.10 | GUIDELINE = 70 (D1) |
| MAR | BDL | BDL | | BDL |
| APR | BDL | BDL | - I | RDL |
| MAY | BDL | BDL | | BDL |
| JUN - | BDL | BDL | | |
| JUL | 115 | BDL | | BDL |
| AUG | BDL | - BDL | i i | BDL |
| SEP | BDL | BDL | i i | .200 <t< td=""></t<> |
| OCT | BDL | BDL | · | BDL |
| NOV | BDL | BDL | | BDL |
| DEC | BDL | BDL | | BDL |
| CHLOROFORM | (UG/L) | | DET'N LIMIT = 0.10 | GUIDELINE = 350 (A1+) |
| | | | | 40.022.112 |
| MAR | BDL | 86.200 | _ | 61,800 |
| APR | BDL | 69.300 | | 80.200 |
| MAY | BDL | 79.600 | | 69.200 |
| JUN | BDL | 95.600 | | |
| JUL | !15 | 87,100 | | 97.800 |
| AUG | • | 61.900 | • | • |
| SEP | BDL | 59.800 | | 13.400 |
| OCT | BDL | 49.600 | | 10.800 |
| NOV | BDL | 78.500 | • | 86.400 |
| DEC | BOL | 94.400 | | 105.200 |
| 111, TRICH | LOROETHANE (UG/ | L) | DET'N LIMIT = 0.02 | GUIDELINE = 200 (D1) |
| MAR | BDL | BOL | | no. |
| APR | BDL | BOL | • | BOL |
| MAY | BOL | BDL | • | BDL |
| JUN | BDL | | | .080 <t< td=""></t<> |
| JUL | IIS | BOL | • | 201 |
| AUG | BDL | BDL | • | BDL |
| SEP | BDL | BDL BDL | • | BDL |
| OCT | BOL | | • | .220 |
| NOV | BDL | BOL | • | .180 <t< td=""></t<> |
| DEC | | BDL | | BOL |
| DEC | BDL | BDL | • | BDL |

WATER TREATMENT PLANT

| RAL | ı | TREATED | SITE 1 | |
|-------------|-----------------|--|--------------------|-----------------------|
| | | | STAND1NG | FREE FLOW |
| TRICHLOROET | HYLENE (UG/L |) | | GUIDELINE = 50 (A1) |
| HAR | BDL | BDL | | BOL |
| APR | BDL. | BOL | | BDL |
| MAY | BOL | BDL | | BOL |
| JUN | BDL | BOL | • | |
| JUL | 115 | BDL | • | BDL |
| AUG | - | BOL | | |
| SEP | BDL | BOL | | 21.900 |
| OCT | BOL | BOL | | 20.600 |
| NOA | BDL | BOL | | BDL |
| DEC | BDL | BOL | | BDL |
| | | .) | DET'N LIMIT = 0.05 | |
| MAR | BDL | 9.950 | | 8.350 |
| APR | BOL | 10.000 | * | 11,500 |
| MAY | BOL | 8,100 | * | 7.750 |
| JUN | BOL | 9.350 | • | |
| JUL | 115 | 10.850 | | 10.550 |
| AUG | | 11.750 | | • |
| SEP | BDL | 9,450 | | 9.400 |
| OCT | BOL | 8.650 | | 8.950 |
| NOV | BDL | 8.800 | | 9.050 |
| DEC | BDL | 10.550 | | 10.950 |
| | MOMETHANE (UG/L | .) | DET'N LIMIT = 0.10 | GUIDELINE = 350 (A1+) |
| MAR | BDL | .700 <t< td=""><td></td><td>.600 <t< td=""></t<></td></t<> | | .600 <t< td=""></t<> |
| APR | BDL | .500 <t< td=""><td>•</td><td>.500 <t< td=""></t<></td></t<> | • | .500 <t< td=""></t<> |
| HAY | BDL | .500 <t< td=""><td>•</td><td>.500 <t< td=""></t<></td></t<> | • | .500 <t< td=""></t<> |
| JUN | BDL | .700 <t< td=""><td>•</td><td>. 300 1</td></t<> | • | . 300 1 |
| JUL | IIS | .800 <t< td=""><td>•</td><td>.800 <t< td=""></t<></td></t<> | • | .800 <t< td=""></t<> |
| AUG. | | 1,400 | | * |
| SEP | BDL | .900 <t< td=""><td></td><td>6.000</td></t<> | | 6.000 |
| OCT | BDL | .900 <t< td=""><td></td><td>5.800</td></t<> | | 5.800 |
| NOV | BDL | .600 <t< td=""><td>Ž.</td><td>.500 <t< td=""></t<></td></t<> | Ž. | .500 <t< td=""></t<> |
| DEC | BDL | .600 <t< td=""><td></td><td>.600 <t< td=""></t<></td></t<> | | .600 <t< td=""></t<> |
| | YLENE (UG/L | | DET'N LIMIT = 0.05 | |
| MAR | BDL | BDL | | BDL |
| APR | BOL | BDL . | | BOL |
| HAY | BDL | BDL | | BOL |
| JUN | BDL | BDL | | |
| JUL | 115 | BOL | | BDL |
| AUG | | BOL | | |
| SEP | BDL | BDL | | .200 <t< td=""></t<> |
| OCT | BDL | BOL | | .150 <t< td=""></t<> |
| NUM | BUI | ROL | | RNI |

NOV

DEC

BOL

BOL

BOL

BDL

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BOL BOL

TABLE 5
DRINKING WATER SURVEILLANCE PROGRAM DELHI WTP 1990

WATER TREATMENT PLANT

RAW TREATED SITE 1 STANDING FREE FLOW GUIDELINE = 350 (A1+) BROMOFORM (UG/L DET'N LIMIT = 0.20 MAR BDL BDL BDL BDL APR BDL BDL MAY BOL BDL BDL JUN BOL BDL JUL IIS BOL BDL BDL AUG BOL BOL SEP BOL BDL 1.000 <T .800 <T OCT BDL BDL NOV BOL BDL BDL BDL DEC BOL BDL GUIDELINE = 350 (A1) TOTAL TRIHALOMETHANES (UG/L DET'N LIMIT = 0.50 MAR BDL 96.800 70.700 APR BOL 79.800 92,300 MAY BOL 88.200 77.450 JUN BDL 105.350 98.750 JUL ! IS 109.200 AUG 75.050 29.800 SEP BDL 70.150 59.100 87.850 OCT BOL 26.400 NOV 96.000 BOL DEC BOL 105.600 116,750

TRACE LEVELS OF TOLUENE ARE LABORATORY ARTIFACTS DERIVED FROM THE ANALYTICAL METHODOLOGY.

TRACE LEVELS OF STYRENE ARE CONSIDERED TO BE LABORATORY ARTIFACTS RESULTING FROM THE LABORATORY SHIPPING CONTAINERS.

WATER TREATMENT PLANT

| RA | W | TREATED | SITE 1 | |
|-----------|-----------------|----------|-----------------|-------------------------|
| | | | STANDING | FREE FLOW |
| | DACTEDI | OLOGICAL | | |
| ECAL COLI | FORM MF (CT/100 | | DET'N LIMIT = 0 | GUIDELINE = 0 (A1) |
| MAR | BDL | • | | |
| APR | 4 | | | |
| HAY | BDL | | | |
| JUN | 12 | | | |
| JUL | 20 | | | |
| AUG | 26 | • | | |
| SEP | 24 | • | | • |
| OCT | 36 | • | | |
| NOV - | 0 | | | • |
| DEC | BDL | | • | • |
| | ATE CHT MF (COU | NT/ML) | DET'N LIMIT = 0 | GUIDELINE = 500/ML (A |
| MAR | | 0 <=> | | , 0 <=> |
| APR | • | 4 <=> | • | 9 <=> |
| MAY | • | 111 | • | 28 |
| JUN | • | 2200 | • | 0 <=> |
| JUL | • | 2400 > | • | 7 <=> |
| AUG | • | 1600 | • | 23 |
| SEP | • | 2400 > | • | 2400 > |
| OCT | • | 230 | • | . 43 |
| NOV | • | 0 | • | 19 |
| DEC | • | 9 <=> | • | 2 <=> |
| | FORM MF (CT/100 | ML) | DET N LIMIT = 0 | GUIDELINE = 5/100HL(A1) |
| MAR | 70 | | | |
| APR | 32 160 | • | • | • |
| HAY | 260 | • | • | • |
| JUH | 80 <=> | . • | • | • |
| JUL | 340 | • | • | • |
| AUG | 170 | • | • | • |
| SEP | 110 | • | . • | * |
| OCT | 290 | • | • | * |
| NOV | 0 | .* | • | * |
| DEC | 120 | • | | |
| | | | DET'N LIMIT = 0 | GUIDELINE = N/A |
| | BCKGRD MF (CT/ | TOURL) | DELAN CINTI - 0 | GOIDELINE - N/A |
| MAR | 724 | • | | • |
| APR | 4000 | | • | • |
| HAY | 28000 | | • | • |
| JUN | 16800 | 0 | • | • |
| JUL | 6400 | | | |
| AUG | 6200 | • | | • |
| SEP | 24000 > | • | | |
| OCT | 19000 | | | • |
| HOA | 0 | • | | |
| DEC | 2900 | | | • |

WATER TREATMENT PLANT

| RAW | TREATED | SITE 1 | |
|---|--|---|--|
| | | STANDING | FREE FLOW |
| C | HEMISTRY (FLD) | | |
| LD CHLORINE (COMB) | (MG/L) | DET'N LIMIT = 0 | GUIDELINE = N/A |
| MAR . | .200 | | .200 |
| APR . | .200 | 100 | .200 |
| MAY . | | .000 | .000 |
| JUN . | .200 | .000 | .200 |
| JUL . | .200 | .000 | .200 |
| AUG . | .400 | .100 | .200 |
| SEP . | -100 | .100 | .000 |
| OCT . | .400 | -000 | .200 |
| NOV . | | .200 | .200 |
| DEC . | .200 | .000 | .200 |
| LD CHLORINE FREE (| MG/L) | DET'N LIMIT = 0 | GUIDELINE = N/A |
| MAR . | 1.700 | _ | 1.100 |
| APR | 1.100 | .100 | 1.100 |
| MAY | 1,100 | .100 | .700 |
| JUN . | .900 .900 1.100 | .100 | .500 |
| JUL . | .900 | .100 .100 | .1.300 |
| AUG . | 1.100 | .100 | .900 |
| SEP . | 4 000 | .100 .100 | :700 |
| OCT . | .500 | .100 | .500 |
| NOV . | | .100 | .900 |
| DEC . | 1.000 | .100 | 1.500 |
| LD CHLORINE (TOTAL |) (MG/L) | DET'N LIMIT = 0 | GUIDELINE = N/A |
| | | | |
| MAR . | 1.900 | | 1.300 |
| MAR . APR . | | .200 | 1.300 |
| | 1.100 | .200 .100 | 1.300 |
| APR . | 1.100 | .100 | |
| APR HAY | 1.100 | .100 | 1.300 .700 .700 1.500 |
| APR MAY JUN JUL AUG | 1.100 1.300 1.100 1.100 1.500 | .100 .200 | 1.300 .700 .700 1.500 1.100 |
| APR MAY JUN JUL AUG SEP | 1.100 1.300 1.100 1.100 1.500 | .100 .200 .200 | 1.300 .700 .700 1.500 1.100 .700 |
| APR MAY JUN JUL AUG SEP OCT | 1.100 1.300 1.100 1.100 1.500 | .100 .200 .200 .100 | 1.300 .700 .700 1.500 1.100 .700 |
| APR MAY JUN JUL AUG SEP OCT NOV | 1.100 1.300 1.100 1.100 1.500 1.100 | .100 .200 .200 .100 .300 | 1.300 .700 .700 1.500 1.100 .700 .700 |
| APR MAY JUN JUL AUG SEP OCT | 1.100 1.300 1.100 1.100 1.500 1.100 | .100 .200 .200 .100 | 1.300 .700 .700 1.500 1.100 .700 .700 1.100 |
| APR MAY JUN JUL AUG SEP OCT NOV DEC | 1.100 1.300 1.100 1.100 1.500 1.100 | .100 .200 .200 .100 .300 | 1.300 .700 .700 1.500 1.100 .700 .700 1.100 |
| APR MAY JUN JUN JUL AUG SEP OCT NOV DEC LD PH (DMNSLESS) | 1.100 1.300 1.100 1.100 1.500 1.100 .900 | .100 .200 .200 .100 .300 .100 | 1.300 .700 .700 1.500 1.100 .700 .700 1.100 |
| APR MAY JUN JUN JUL AUG SEP OCT NOV DEC LD PH (DMNSLESS) | 1.100 1.300 1.100 1.100 1.500 1.100 .900 | .100 .200 .200 .100 .300 .100 | 1.300 .700 .700 1.500 1.100 .700 .700 1.100 1.700 |
| APR MAY JUN JUL AUG SEP OCT NOV DEC LD PH (DMNSLESS) MAR 7.500 APR 7.700 MAY 7.500 MAY 7.500 | 1.100 1.300 1.100 1.100 1.500 1.500 1.200 7.400 7.400 7.400 | .100 .200 .200 .100 .300 .100 DET'N LIMIT = N/A | 1.300 .700 .700 1.500 1.100 .700 .700 1.100 1.700 GUIDELINE = 6.5-8.5(A4 |
| APR MAY JUN JUL AUG SEP OCT NOV DEC LD PH (DMNSLESS) MAR 7.500 APR 7.700 | 1.100 1.300 1.100 1.100 1.500 1.500 1.200 7.400 7.400 7.400 | -100 -200 -200 -100 -300 -100 DET'N LIMIT = N/A 7.600 7.800 | 1.300 .700 .700 1.500 1.100 .700 .700 1.100 1.700 GUIDELINE = 6.5-8.5(A4 |
| APR MAY JUN JUL AUG SEP OCT NOV DEC LD PH (DMNSLESS) MAR 7.500 APR 7.700 MAY 7.500 MAY 7.500 | 1.100 1.300 1.100 1.100 1.500 1.100 .900 1.200 7.400 7.400 7.400 | -100 -200 -200 -100 -300 -100 DET'N LIMIT = N/A | 1.300 .700 .700 1.500 1.100 .700 .700 1.100 1.700 GUIDELINE = 6.5-8.5(A4 |
| APR MAY JUN JUN JUL AUG SEP OCT NOV DEC LD PH (DMNSLESS) MAR 7.500 APR 7.700 MAY 7.500 JUN 7.500 | 1.100 1.300 1.100 1.100 1.500 1.100 .900 1.200 7.400 7.400 7.400 7.400 | -100 -200 -200 -100 -300 -100 DET'N LIMIT = N/A 7.600 7.800 7.800 7.800 | 1.300 .700 .700 1.500 1.100 .700 .700 1.100 1.700 GUIDELINE = 6.5-8.5(A4 7.700 8.000 7.600 7.800 |
| APR MAY JUN JUL AUG SEP OCT NOV DEC LD PH (DMNSLESS) MAR 7.500 APR 7.700 MAY 7.500 JUN 7.500 JUL 7.200 | 1.100 1.300 1.100 1.100 1.500 1.100 .900 1.200 7.400 7.400 7.400 7.400 7.200 | 7.600 7.800 7.600 7.600 | 1.300 .700 .700 1.500 1.100 .700 .700 1.100 1.700 GUIDELINE = 6.5-8.5(A4 7.700 8.000 7.600 7.600 |
| APR MAY JUN JUL AUG SEP OCT NOV DEC LD PH (DMNSLESS) MAR 7.500 APR 7.700 APR 7.700 APR 7.500 JUN 7.500 JUN 7.500 JUN 7.500 JUN 7.500 AUG 7.200 SEP 7.400 OCT 7.400 | 7.400 7.400 7.400 7.400 7.600 7.400 7.600 7.600 7.600 7.600 7.600 | 7.600 7.800 7.600 7.600 7.600 | 1.300 .700 .700 1.500 1.100 .700 .700 1.100 1.700 GUIDELINE = 6.5-8.5(A4 7.700 8.000 7.600 7.600 7.400 7.400 7.600 |
| APR MAY JUN JUL AUG SEP OCT NOV DEC LD PH (DMNSLESS) MAR 7.500 APR 7.700 MAY 7.500 JUL 7.200 AUG 7.200 SEP 7.400 | 1.100 1.300 1.100 1.100 1.500 1.500 1.200 7.400 7.400 7.400 7.400 7.200 7.600 7.400 | 7.600 7.800 7.600 7.600 | 1.300 .700 .700 1.500 1.100 .700 .700 1.100 1.700 GUIDELINE = 6.5-8.5(A4 7.700 8.000 7.600 7.800 7.400 7.400 |

TABLE 5
DRINKING WATER SURVEILLANCE PROGRAM DELHI SPRING SUPPLY 1990

WATER TREATMENT PLANT

| R | AW | TREATED | SITE 1 | |
|------------|----------------|------------------|-------------------|---------------------|
| | | | STANDING | FREE FLOW |
| FLD TEMPE | RATURE (DEG.C |) | DET'N LIMIT = N/A | GUIDELINE = 15 (A3) |
| HAR APR | 6.000 8.000 | 6.500 8.000 | 19.000 | 5.000 8.000 |
| HAY JUN | 10.000 | 10.000 15.000 | 18.000 18.000 | 14.000 |
| JUL | 12.500 | 12.500 13.000 | 22.000 21.000 | 16.000 16.000 |
| SEP | 13.000 | 13.000 10.500 | 20.000 | 14.000 13.000 |
| NOV | 3.000 | 3.000 | 19.000 19.000 | 12.000 9.000 |

WATER TREATMENT PLANT

| R | AW | TREATED | SITE 1 | |
|------------|---|--|---|--|
| | | | STANDING | FREE FLOW |
| | CHEMIS | STRY (LAB) | | |
| ALKALINIT | Y (MG/L) | | DET'N LIMIT = 0.2 | GUIDELINE = 30-500 (A4 |
| MAR | 221.800 | 221.800 | | 221.600 |
| APR | 145.200 120.900 221.200 222.500 | 221.700 168.600 219.100 219.900 | 220.200 192.400 | 201 000 |
| MAY | 120.900 | 168.600 | 192.400 | 189.200 186.100 194.300 192.000 219.000 221.000 |
| JUN | 221.200 | 219.100 | 216.500 198.100 | 186.100 |
| JUL | 222.500 | 219.900 | 198.100 | 194.300 |
| AUG SEP | 215.400 216.400 216.000 | 216.800 | 217.000 219.900 222.000 | 210 000 |
| OCT | 216.400 | 222 200 | 222 000 | 221 000 |
| NOV | 227.000 | 226.300 | 205.300 | 206,600 |
| | 231.000 | 225.900 | 198.100 217.000 219.900 222.000 205.300 211.500 | 206.600 209.800 |
| CALCIUM (| MG/L) | | DET'N LIMIT = 0.2 | GUIDELINE = 100 (F2) |
| MAR | 89.600 | 95.200 95.300 81.600 92.900 96.200 97.400 96.400 99.200 | | 92.400 |
| APR | 89.600 72.400 | 95.300 | 98.000 85.800 | 92.400 95.600 83.300 80.700 88.000 84.800 |
| HAY | 54.880 | 81.600 | 85.800 | 83.300 |
| JUN | 91.200 | 92.900 | 91.600 | 80.700 |
| JUL | 91.200 95.000 92.700 | 96.200 | 92.000 | 88.000 |
| AUG | 92.700 | 97.400 | 94.600 95.000 | 84.800 |
| SEP | 96.000 | 96.400 | 100.000 | 96.000 96.600 |
| NOV | 97.600 95.200 | 100.000 | 94.400 | 92.800 |
| DEC | 91.300 | 98.000 | 100.400 | 100.000 |
| | (MG/L) | | DET'N LIMIT = 0.2 | GUIDELINE = 250 (A3) |
| MAR | 51.800 | 53,400 | | 53.300 |
| APR MAY | | 53.400 52.800 51.400 51.300 52.600 51.500 53.800 54.600 55.700 | 49.300 | 21.900 22.000 |
| MAY | 50.400 | 51.400 | 26.100 | 22.000 |
| JUN | 50.000 | 51.300 | 49.300 26.100 48.000 27.300 53.200 54.100 | 21.700 |
| JUL | 50.500 | 52.600 | 27.300 | 24.000 |
| AUG | 51.900 | 51.500 | 53.200 | |
| SEP | 52.100 | 53.800 | 54.100 | 53.900 |
| NOV | 54.700 | 54.600 EE 700 | 55.100 | 34.200 |
| DEC | 51.500 50.400 50.000 50.500 51.900 52.100 53.200 54.300 54.900 | 33.000 | 23.000 | 23.100 24.500 |
| COLOUR (H | ZU) | | | GUIDELINE = 5 (A3) |
| MAR | 1.000 <t< td=""><td>.500 <t .500 <t BDL BDL BDL BDL .500 <t 1.000 <t< td=""><td></td><td>.500 <t< td=""></t<></td></t<></t </t </t </td></t<> | .500 <t .500 <t BDL BDL BDL BDL .500 <t 1.000 <t< td=""><td></td><td>.500 <t< td=""></t<></td></t<></t </t </t | | .500 <t< td=""></t<> |
| APR | 1.000 <t< td=""><td>.500 <t< td=""><td>1.000 <t< td=""><td>5.500</td></t<></td></t<></td></t<> | .500 <t< td=""><td>1.000 <t< td=""><td>5.500</td></t<></td></t<> | 1.000 <t< td=""><td>5.500</td></t<> | 5.500 |
| MAY | BDL | BDL | 4.000 | 4,500 |
| JUN | 3.000 | BDL | .500 <t< td=""><td>5.500</td></t<> | 5.500 |
| JUL | .500 <t< td=""><td>. BDL</td><td>5.000</td><td>4.500</td></t<> | . BDL | 5.000 | 4.500 |
| AUG | .500 <t< td=""><td>BDL</td><td>BDL</td><td>1.500 <t< td=""></t<></td></t<> | BDL | BDL | 1.500 <t< td=""></t<> |
| SEP | 1.500 <t 1.500 <t< td=""><td>.500 <t< td=""><td>.500 <t< td=""><td>BDL .500 <t< td=""></t<></td></t<></td></t<></td></t<></t | .500 <t< td=""><td>.500 <t< td=""><td>BDL .500 <t< td=""></t<></td></t<></td></t<> | .500 <t< td=""><td>BDL .500 <t< td=""></t<></td></t<> | BDL .500 <t< td=""></t<> |
| OCT | 1.500 <7 | 1.000 <7 | 1.000 <t< td=""><td>.500 <t< td=""></t<></td></t<> | .500 <t< td=""></t<> |
| NOV | 1.000 <t 1.000 <t< td=""><td>.500 <t .500 <t< td=""><td>1.000 <t 4.000 .500 <t 5.000 BDL .500 <t 1.000 <t 5.500 6.500</t </t </t </t </td><td>.500 <t 4.000 4.500</t </td></t<></t </td></t<></t | .500 <t .500 <t< td=""><td>1.000 <t 4.000 .500 <t 5.000 BDL .500 <t 1.000 <t 5.500 6.500</t </t </t </t </td><td>.500 <t 4.000 4.500</t </td></t<></t | 1.000 <t 4.000 .500 <t 5.000 BDL .500 <t 1.000 <t 5.500 6.500</t </t </t </t | .500 <t 4.000 4.500</t |
| | 1.000 <1 | | 0.300 | 4.500 |
| | | | | |

WATER TREATMENT PLANT

| R | AW | TREATED | SITE 1 | |
|------------|--|---|--------------------|----------------------|
| | | | STANDING | FREE FLOW |
| CONDUCTIV | /ITY (UMHO/CH) | | DET'N LIMIT = 1. | GUIDELINE = 400 (F2) |
| MAR | 697 | 705 | | 703 |
| APR | 687 | 703 | 693 | 596 |
| HAY | 679 | 700 | 580 | 563 |
| JUN | 683 | 694 | 673 | 549 |
| JUL | 689 | 695 | 579 | 562 |
| AUG | 675 | 689 | 686 | 576 |
| SEP | 683 | 699 | 699 | 698 |
| DCT | 691 | 711 | 710 | 707 |
| NOV | 711 | 724 | 592 | 594 |
| DEC | 721 | 723 | 620 | 616 |
| DISS ORG | CARBON (MG/L |) | DET'N LIMIT = .100 | GUIDELINE = 5.0 (A3) |
| MAR | .600 | .900 | | .900 |
| APR | .800 | .800 | 1,400 | 3.400 |
| HAY | .900 | 1.000 | 2.800 | 3.500 |
| JUN | 1.800 | 1.100 | 1.800 | 3,900 |
| JUL | .800 | 1.100 | 2,500 | 3.000 |
| AUG | .900 | 1,100 | 1,100 | 1,500 |
| SEP | .800 | 1.000 | 1,000 | 1,000 |
| OCT | .800 | .800 | 1.000 | .900 |
| NOV | .800 | .800 | 2,700 | 2.900 |
| DEC | .500 | .600 | 2,900 | 2.900 |
| | (MG/L) | *************************************** | DET'N LIMIT = 0.01 | GUIDELINE = 2.4 (A1) |
| MAD | 0/0 | 4 7/0 | | 4 720 |
| MAR APR | .060 | 1.340 | 1,220 | 1.320 |
| | .080 | 1.240 | | .740 |
| MAY | .100 | 1.400 | 1.480 | 1.360 |
| JUN | .080 | 1.360 | 1.300 | 1.120 |
| AUG | .100 | 1.560 | 1.400 1.300 | 1.300 1.120 |
| SEP | .040 <t< td=""><td>1.200 1.640</td><td>1.540</td><td>1.520</td></t<> | 1.200 1.640 | 1.540 | 1.520 |
| OCT | .060 | 1.500 | 1.520 | 1.500 |
| NOV | .040 <t< td=""><td>1.340</td><td>.340</td><td>.240</td></t<> | 1.340 | .340 | .240 |
| DEC | .060 | 1.220 | .700 | .600 |
| | (MG/L) | | DET'N LIMIT = 0.5 | |
| | | 740.000 | | |
| HAR | 298.200 | 312.000 | 74/ 000 | 307.000 |
| APR | 255.000 | 312.000 | 316.000 | 298.000 |
| HAY | 213.000 | 274.600 | 274.300 | 265.000 |
| JUN | 300.600 | 306.100 | 301.300 | 260.700 |
| JUL | 311.000 | 313.000 | 292.000 | 280.000 |
| AUG | 308.200 | 320.900 | 310.800 | 278.900 |
| SEP | 310.000 | 312.000 | 308.000 | 311.000 |
| OCT | 319.000 | 323.000 | 325.000 | 316.000 |
| NOV | 314.000 | 324.000 | 296.000 | 293.000 |
| DEC | 304.300 | 320.200 | 313.100 | 312.800 |

WATER TREATMENT PLANT

| | RAW | TREATED | SITE 1 | |
|----------|-------------------|---------|--------------------|----------------------|
| | | | STANDING | FREE FLOW |
| IONCAL (| (DMNSLESS) | | DET'N LIMIT = N/A | GUIDELINE = N/A |
| NÁR | 4.987 | .705 | | 2.880 |
| APR | 6.144 | .869 | .200 | .079 |
| HAY | 6.742 | 5 032 | _271 | 2.396 |
| JUN | 3.487 | .762 | 1.281 | 2.247 |
| JUL | 1.078 | .493 | 4.507 | 1.117 |
| AUG | .802 | 4.682 | 1,113 | 3.558 |
| SEP | 1 301 | 2.005 | .186 | .869 |
| OCT | 3.881 | 3.237 | 3.770 | 1.832 |
| NOV | .629 | 2.044 | 2.057 | .453 |
| DEC | 3.841 | 2.285 | | 3.176 |
| LANGELIE | ERS INDEX (DMNSLI | ESS) | DET'N LIMIT = N/A | GUIDELINE = N/A |
| MAR | 1.162 | 1,208 | | 1.285 |
| APR | .506 | 1.249 | 1.248 | 1_235 |
| MAY | .637 | 1.042 | 1.139 | 1,111 |
| JUN | .1.009 | .953 | 1.052 | .991 |
| JUL | 1,249 | 1.269 | 1.242 | 1.226 |
| AUG | 1.105 | 1.099 | 1.197 | 1.053 |
| SEP | 1.062 | 1.148 | 1.194 | 1.147 |
| OCT | 1.328 | 1.377 | 1.410 | 1.373 |
| NOV | 1.258 | 1.197 | 1.208 | 1.193 |
| DEC | 1.207 | 1.188 | 1.245 | 1,220 |
| | JH (MG/L) | | DET'N LIMIT = 0.10 | |
| MAR | 18,100 | 18.200 | | 18.500 |
| APR | 18.000 23.240 | 18.000 | 17.400 | 14.500 |
| MAY | 23.240 | 17.250 | 14.600 | 13.850 |
| JUN | 17.750 | 18.000 | 17.650 | 14:400 |
| JUL | 18.000 | 17.600 | 15.200 | 14.600 |
| AUG | 18.650 | 18.850 | 18.150 | 16.350 |
| SEP | 17.000 | 17.400 | 17.200 | 17.400 |
| OCT | 18.400 | 18.400 | 18.300 | 18.200 |
| NOV | 18.400 | 17.900 | 14.800 | 14.800 |
| DEC | 18.600 | 18.350 | 15.150 | 15.300 |
| | (MG/L) | | | GUIDELINE = 200 (A4) |
| MAR | 22.500 | 23.900 | | -23.400 |
| APR | 22.000 | 22.800 | 20.800 | 10.000 |
| MAY | 20.800 | 23.600 | 12.800 | 11.200 |
| JUN | 21.400 | 23.300 | 20.900 | 11.000 |
| JUL | 23.600 | 24.000 | 13.800 | 11.400 |
| AUG | 23.500 | 24.800 | 24.400 | 15.000 |
| SEP | 24.400 | 26.200 | 25.600 | 25.400 |
| OCT | 24.800 | 25.600 | 25.800 | 25.400 |
| NOV | 24.600 | 26.000 | 11.600 | 11.800 |
| DEC | 26.300 | 27.500 | 12.200 | 12.000 |

WATER TREATMENT PLANT

| | RAW | TREATED | SITE 1 | | |
|--|--|---|---|---|------|
| | | | STANDING | | |
| | TOTAL (MG/L | | | QUIDELINE = 0.05 | (F2) |
| NAR | BOL | BDL | | BDL | |
| APR | | BOL | .004 <t< td=""><td>BOL</td><td></td></t<> | BOL | |
| HAY | .008 <t< td=""><td>BDL</td><td></td><td>BOL</td><td></td></t<> | BDL | | BOL | |
| JUN | | BDL | BDL · | BDL | |
| JUL | | BOL | BOL | BOL | |
| AUG | .022 | .002 <t< td=""><td>.004 <t< td=""><td>.002 <t< td=""><td></td></t<></td></t<></td></t<> | .004 <t< td=""><td>.002 <t< td=""><td></td></t<></td></t<> | .002 <t< td=""><td></td></t<> | |
| SEP | .038 | BOL | BOL | BOL | |
| OCT | n44 | BDL | BOL | BOL | |
| NOV | .034 | .002 <t< td=""><td>.014</td><td>.004 <t< td=""><td></td></t<></td></t<> | .014 | .004 <t< td=""><td></td></t<> | |
| DEC | .048 | BDL | .016 | .006 <7 | |
| | (MG/L ·) | | DET'N LIMIT = 0.001 | | (A1) |
| MAR | | BDL | | BDL | |
| APR | | BDL .001 <t< td=""><td>.002 <t< td=""><td>. 001 <t .002 <t< td=""><td></td></t<></t </td></t<></td></t<> | .002 <t< td=""><td>. 001 <t .002 <t< td=""><td></td></t<></t </td></t<> | . 001 <t .002 <t< td=""><td></td></t<></t | |
| HAY | | .001 <t< td=""><td>.003 <t< td=""><td></td><td></td></t<></td></t<> | .003 <t< td=""><td></td><td></td></t<> | | |
| JUN | | BDL | .001 <t< td=""><td>.001 <t< td=""><td></td></t<></td></t<> | .001 <t< td=""><td></td></t<> | |
| JUL | .024 .021 .040 | BDL .006 | .008 | .005 | |
| AUG | .021 | .001 <t< td=""><td>BDL</td><td>BDL</td><td></td></t<> | BDL | BDL | |
| SEP | .040 | .005 | .010 BDL | .008 | |
| OCT | .028 | BDL | BOL | BOL | |
| NOV | .027 | BDL | .001 <t< td=""><td>BDL</td><td></td></t<> | BDL | |
| DEC | .027 .018 | BDL | .001 <t< td=""><td>.005</td><td></td></t<> | .005 | |
| | TRATES (MG/L | | DET'N LIMIT = 0.005 | | CA |
| MAR | 5.880 | 5,900 | | 5.980 | |
| APR | | 5.570 | 4.910 | 2.800 | |
| MAY | | 5,760 | 2.680 | 2,220 | |
| JUN | | 5,570 | 2.010 | 1.700 | |
| JUL | 6 500 | 6.280 | 2.240 | 1.790 | |
| | 0.300 | | | | |
| AUG | 5 540 | | | 3.510 | |
| AUG | 5.540 | 5.540 | 5.470 | 3.510 | |
| SEP | 5.410 | 5.540 5.420 | 5.470 5.450 | 5.420 | |
| SEP | 5.390 | 5.540 5.420 5.420 | 5.470 5.450 5.330 | 5.420 5.440 | |
| SEP OCT NOV DEC | 5.390 5.100 5.400 | 5.540 5.420 5.420 5.440 5.430 | 5.470 5.450 5.330 1.740 2.530 | 5.420 5.440 1.700 2.470 | |
| SEP OCT NOV DEC | 5.390 5.100 5.400 | 5.540 5.420 5.420 5.440 5.430 | 5.470 5.450 5.330 1.740 2.530 | 5.420 5.440 1.700 2.470 | |
| SEP OCT NOV DEC | 5.390 5.100 5.400 TOT KJELD (MG/L | 5.540 5.420 5.420 5.440 5.430 | 5.470 5.450 5.330 1.740 2.530 DET'N LIMIT = 0.02 | 5.420 5.440 1.700 2.470 | |
| SEP OCT NOV DEC | 5.390 5.100 5.400 TOT KJELD (MG/L | 5.540 5.420 5.420 5.440 5.430 | 5.470 5.450 5.330 1.740 2.530 DET'N LIMIT = 0.02 | 5.420 5.440 1.700 2.470 GUIDELINE = N/A | |
| SEP OCT NOV DEC NITROGEN MAR APR | 5.390 5.100 5.400 TOT KJELD (MG/L .160 .230 | 5.540 5.420 5.420 5.440 5.430 -) | 5.470 5.450 5.330 1.740 2.530 DET'N LIMIT = 0.02 | 5.420 5.440 1.700 2.470 GUIDELINE = N/A | |
| SEP OCT NOV DEC | 5.390 5.100 5.400 TOT KJELD (MG/L .160 .230 .230 | 5.540 5.420 5.420 5.440 5.430 .090 < 7 .140 | 5.470 5.450 5.330 1.740 2.530 DET'N LIMIT = 0.02 | 5.420 5.440 1.700 2.470 GUIDELINE = N/A .090 <t .390</t | |
| SEP OCT NOV DEC NITROGEN MAR APR MAY JUN | 5.390 5.100 5.400 TOT KJELD (MG/L .160 .230 .230 .210 | . 5.540 5.420 5.420 5.440 5.430 .) | 5.470 5.450 5.330 1.740 2.530 DET'N LIMIT = 0.02 | 5.420 5.440 1.700 2.470 GUIDELINE = N/A .090 <t .390 .310</t | |
| SEP OCT NOV DEC NITROGEN MAR APR MAY JUN JUL | 5.390 5.100 5.400 TOT KJELD (MG/L .160 .230 .230 .210 | 5.540 5.420 5.420 5.440 5.430 -) 090 <t .140 .150 .170 .180</t | 5.470 5.450 5.330 1.740 2.530 DET'N LIMIT = 0.02 .220 .300 .280 .350 | 5.420 5.440 1.700 2.470 GUIDELINE = N/A .090 <t .390 .310 .350 .320</t | |
| SEP OCT NOV DEC NITROGEN MAR APR MAY JUN JUL AUG | 5.390 5.100 5.400 TOT KJELD (MG/L .160 .230 .230 .210 .200 .180 | . 5.540 5.420 5.420 5.440 5.430 | 5.470 5.450 5.330 1.740 2.530 DET'N LIMIT = 0.02 .220 .300 .280 .350 .210 | 5.420 5.440 1.700 2.470 GUIDELINE = N/A .090 <t .390 .310 .350 .320 .230</t | |
| SEP OCT NOV DEC HITROGEN MAR APR MAY JUN JUL AUG SEP | 5.390 5.100 5.400 TOT KJELD (MG/L .160 .230 .230 .210 .200 .180 .170 | . 5.540 5.420 5.420 5.440 5.430 | 5.470 5.450 5.330 1.740 2.530 DET'N LIMIT = 0.02 | 5.420 5.440 1.700 2.470 GUIDELINE = N/A .090 <t .390 .310 .350 .320 .230 .150</t | |
| SEP OCT MOV DEC NITROGEN MAR APR MAY JUN JUN AUG SEP OCT | 5.390 5.100 5.400 TOT KJELD (MG/L .160 .230 .230 .210 .200 .180 .170 .220 | . 5.540 5.420 5.420 5.440 5.430 | 5.470 5.450 5.330 1.740 2.530 DET'N LIMIT = 0.02 .220 .300 .280 .350 .210 .190 .260 | 5.420 5.440 1.700 2.470 GUIDELINE = N/A .090 <t .390 .310 .350 .320 .230 .150 .210</t | |
| SEP OCT NOV DEC NITROGEN MAR APR MAY JUN JUL AUG SEP | 5.390 5.100 5.400 TOT KJELD (MG/L .160 .230 .230 .210 .200 .180 .170 .220 | . 5.540 5.420 5.420 5.440 5.430 .090 <t .140 .150 .170 .180 .210 .150 .160</t | 5.470 5.450 5.330 1.740 2.530 DET'N LIMIT = 0.02 | 5.420 5.440 1.700 2.470 GUIDELINE = N/A .090 <t .390 .310 .350 .320 .230 .150</t | |

WATER TREATMENT PLANT

| R | AW | TREATED | SITE 1 | |
|---|---|---|--|---|
| | | | STANDING | FREE FLOW |
| PH (DMNSL | ESS) | | DET'N LIMIT = N/A | GUIDELINE = 6.5-8.5(A4) |
| MAR | 8.340 | 8.360 | | 8.450 |
| APR | 7.960 | 8.400 | 8.390 | 8.420 |
| MAY | 8.290 | 8.380 | 8.390 | 8.380 |
| JUN | 8.180 | 8.120 | 8.230 | 8.280 |
| JUL | 8.400 | 8.420 | 8.450 | 8.460 |
| AUG | 8.280 | 8.250 | 8.360 | 8.310 |
| SEP | 8.220 | 8.300 | 8.350 | 8.300 |
| OCT | 8.480 | 8.510 | 8.540 | 8.520 |
| NOV | 8.400 | 8.320 | 8.390 | 8.380 |
| DEC | 8.360 | 8.320 | 8.390 | 8.370 |
| PHOSPHORU | S FIL REACT (MG | /L) | DET'N LIMIT = 0.0005 | GUIDELINE = N/A |
| MAR | BDL | .010 | | |
| APR | BDL | .008 | | · · · · · · · · · · · · · · · · · · · |
| MAY | .000 | .001 | • | . • |
| JUN | BDL | .004 | • | • |
| JUL | BDL | .002 | • | • |
| AUG | .000 <t< td=""><td>.001 <t< td=""><td>•</td><td>•</td></t<></td></t<> | .001 <t< td=""><td>•</td><td>•</td></t<> | • | • |
| SEP | BDL | BDL | • | • |
| | | | | |
| OCT | BDL | .004 | • | • |
| NOV | .001 <t< td=""><td>.004</td><td>•</td><td></td></t<> | .004 | • | |
| | | | • | |
| NOV DEC | .001 <t< td=""><td>.004 .001 <t< td=""><td>DET'N LIMIT = 0.002</td><td>GUIDELINE = .40 (F2)</td></t<></td></t<> | .004 .001 <t< td=""><td>DET'N LIMIT = 0.002</td><td>GUIDELINE = .40 (F2)</td></t<> | DET'N LIMIT = 0.002 | GUIDELINE = .40 (F2) |
| NOV DEC | .001 <t .000 <t< td=""><td>.004 .001 <t< td=""><td></td><td>GUIDELINE = .40 (F2)</td></t<></td></t<></t | .004 .001 <t< td=""><td></td><td>GUIDELINE = .40 (F2)</td></t<> | | GUIDELINE = .40 (F2) |
| NOV DEC PHOSPHORU | .001 <t .000 <t< td=""><td>.004 .001 <t< td=""><td></td><td>GUIDELINE = .40 (F2)</td></t<></td></t<></t | .004 .001 <t< td=""><td></td><td>GUIDELINE = .40 (F2)</td></t<> | | GUIDELINE = .40 (F2) |
| NOV DEC PHOSPHORU MAR | .001 <t .000 <t S TOTAL (MG/L BDL .002 <t .004 <t< td=""><td>.004 .001 <t< td=""><td></td><td>GUIDELINE = .40 (F2)</td></t<></td></t<></t </t </t | .004 .001 <t< td=""><td></td><td>GUIDELINE = .40 (F2)</td></t<> | | GUIDELINE = .40 (F2) |
| NOV DEC PHOSPHORU MAR APR | .001 <t .000 <t S TOTAL (MG/L BDL .002 <t .004 <t BDL</t </t </t </t | .004 .001 <t< td=""><td>DET'N LIMIT = 0.002</td><td>GUIDELINE = .40 (F2)</td></t<> | DET'N LIMIT = 0.002 | GUIDELINE = .40 (F2) |
| PHOSPHORU MAR APR MAY | .001 <t .000 <t S TOTAL (MG/L BDL .002 <t .004 <t< td=""><td>.004 .001 <t< td=""><td>DET'N LIMIT = 0.002</td><td>GUIDELINE = .40 (F2)</td></t<></td></t<></t </t </t | .004 .001 <t< td=""><td>DET'N LIMIT = 0.002</td><td>GUIDELINE = .40 (F2)</td></t<> | DET'N LIMIT = 0.002 | GUIDELINE = .40 (F2) |
| PHOSPHORU MAR APR MAY JUN | .001 <t .000 <t S TOTAL (MG/L BDL .002 <t .004 <t BDL</t </t </t </t | .004 .001 <t) .011 .011 .008 <t .006 <t< td=""><td>DET'N LIMIT = 0.002</td><td>GUIDELINE = .40 (F2)</td></t<></t </t | DET'N LIMIT = 0.002 | GUIDELINE = .40 (F2) |
| PHOSPHORU MAR APR MAY JUN JUL | .001 <t .000 <t S TOTAL (MG/L BDL .002 <t .004 <t BDL BDL</t </t </t </t | .004 .001 <t) .011 .011 .008 <t .006 <t .005 <t< td=""><td>DET'N LIMIT = 0.002</td><td>GUIDELINE = .40 (F2)</td></t<></t </t </t | DET'N LIMIT = 0.002 | GUIDELINE = .40 (F2) |
| PHOSPHORU MAR APR MAY JUN JUL AUG | .001 <t .000 <t S TOTAL (MG/L 8DL .002 <t .004 <t 8DL BDL .003 <t< td=""><td>.004 .001 <t) .011 .011 .008 <t .006 <t .005 <t< td=""><td>DET'N LIMIT = 0.002</td><td>GUIDELINE = .40 (F2)</td></t<></t </t </t </td></t<></t </t </t </t | .004 .001 <t) .011 .011 .008 <t .006 <t .005 <t< td=""><td>DET'N LIMIT = 0.002</td><td>GUIDELINE = .40 (F2)</td></t<></t </t </t | DET'N LIMIT = 0.002 | GUIDELINE = .40 (F2) |
| PHOSPHORU MAR APR MAY JUN JUL AUG SEP | .001 <t .000 <t S TOTAL (MG/L BDL .002 <t .004 <t BDL .003 <t BDL</t </t </t </t </t | .004 .001 <t) .011 .011 .008 <t .006 <t .005 <t< td=""><td>DET'N LIMIT = 0.002</td><td>GUIDELINE = .40 (F2)</td></t<></t </t </t | DET'N LIMIT = 0.002 | GUIDELINE = .40 (F2) |
| NOV DEC PHOSPHORU MAR APR MAY JUN JUL AUG SEP OCT | .001 <t .000 <t S TOTAL (MG/L BDL .002 <t .004 <t BDL .003 <t BDL BDL BDL</t </t </t </t </t | .004 .001 <t) .011 .011 .008 <t .006 <t .005 <t .011 .005 <t .001 <t< td=""><td>DET'N LIMIT = 0.002</td><td>GUIDELINE = .40 (F2)</td></t<></t </t </t </t </t | DET'N LIMIT = 0.002 | GUIDELINE = .40 (F2) |
| PHOSPHORU MAR APR MAY JUN JUL AUG SEP OCT NOV DEC | .001 <t .000 <t S TOTAL (MG/L BDL .002 <t .004 <t BDL .003 <t BDL .003 <t< td=""><td>.004 .001 <t) .011 .011 .008 <t .006 <t .005 <t .001 <t< td=""><td>DET'N LIMIT = 0.002</td><td>GUIDELINE = .40 (F2)</td></t<></t </t </t </t </td></t<></t </t </t </t </t | .004 .001 <t) .011 .011 .008 <t .006 <t .005 <t .001 <t< td=""><td>DET'N LIMIT = 0.002</td><td>GUIDELINE = .40 (F2)</td></t<></t </t </t </t | DET'N LIMIT = 0.002 | GUIDELINE = .40 (F2) |
| PHOSPHORU MAR APR MAY JUN JUL AUG SEP OCT NOV DEC | .001 <t< td=""><td>.004 .001 <t) .011 .011 .008 <t .006 <t .005 <t .001 <t< td=""><td>DET'N LIMIT = 0.002</td><td></td></t<></t </t </t </t </td></t<> | .004 .001 <t) .011 .011 .008 <t .006 <t .005 <t .001 <t< td=""><td>DET'N LIMIT = 0.002</td><td></td></t<></t </t </t </t | DET'N LIMIT = 0.002 | |
| PHOSPHORU MAR APR MAY JUN JUN JUL AUG SEP OCT NOV DEC SULPHATE MAR APR | .001 <t .000="" .002="" .003="" .004="" <<="" <t="" td=""><td>.004 .001 <t) .011 .011 .008 <t .006 <t .005 <t .011 .005 <t .007 <t .003 <t< td=""><td>DET'N LIMIT = 0.002</td><td>GUIDELINE = 500 (A3) 47.820 73.910</td></t<></t </t </t </t </t </t </td></t> | .004 .001 <t) .011 .011 .008 <t .006 <t .005 <t .011 .005 <t .007 <t .003 <t< td=""><td>DET'N LIMIT = 0.002</td><td>GUIDELINE = 500 (A3) 47.820 73.910</td></t<></t </t </t </t </t </t | DET'N LIMIT = 0.002 | GUIDELINE = 500 (A3) 47.820 73.910 |
| PHOSPHORU MAR APR MAY JUN JUL AUG SEP OCT NOV DEC SULPHATE | .001 <t< td=""><td>.004 .001 <t) .011 .011 .008 <t .005 <t .011 .005 <t .011 .007 <t .003 <t< td=""><td>DET'N LIMIT = 0.002</td><td>GUIDELINE = 500 (A3) 47.820 73.910 65.320</td></t<></t </t </t </t </t </td></t<> | .004 .001 <t) .011 .011 .008 <t .005 <t .011 .005 <t .011 .007 <t .003 <t< td=""><td>DET'N LIMIT = 0.002</td><td>GUIDELINE = 500 (A3) 47.820 73.910 65.320</td></t<></t </t </t </t </t | DET'N LIMIT = 0.002 | GUIDELINE = 500 (A3) 47.820 73.910 65.320 |
| PHOSPHORU MAR APR MAY JUN JUN JUL AUG SEP OCT NOV DEC SULPHATE MAR APR | .001 <t .000="" .002="" .003="" .004="" <<="" <t="" td=""><td>.004 .001 <t) .011 .011 .008 <t .006 <t .005 <t .011 .005 <t .007 <t .003 <t< td=""><td>DET'N LIMIT = 0.002</td><td>GUIDELINE = 500 (A3) 47.820 73.910 65.320 65.520</td></t<></t </t </t </t </t </t </td></t> | .004 .001 <t) .011 .011 .008 <t .006 <t .005 <t .011 .005 <t .007 <t .003 <t< td=""><td>DET'N LIMIT = 0.002</td><td>GUIDELINE = 500 (A3) 47.820 73.910 65.320 65.520</td></t<></t </t </t </t </t </t | DET'N LIMIT = 0.002 | GUIDELINE = 500 (A3) 47.820 73.910 65.320 65.520 |
| PHOSPHORU MAR APR MAY JUN JUL AUG SEP OCT NOV DEC SULPHATE MAR APR MAY | .001 <t< td=""><td>.004 .001 <t) .011 .011 .008 <t .005 <t .011 .005 <t .011 .007 <t .003 <t< td=""><td>DET'N LIMIT = 0.002</td><td>GUIDELINE = 500 (A3) 47.820 73.910 65.320</td></t<></t </t </t </t </t </td></t<> | .004 .001 <t) .011 .011 .008 <t .005 <t .011 .005 <t .011 .007 <t .003 <t< td=""><td>DET'N LIMIT = 0.002</td><td>GUIDELINE = 500 (A3) 47.820 73.910 65.320</td></t<></t </t </t </t </t | DET'N LIMIT = 0.002 | GUIDELINE = 500 (A3) 47.820 73.910 65.320 |
| PHOSPHORU MAR APR MAY JUN JUL AUG SEP OCT NOV DEC SULPHATE MAR APR MAY JUN JUN JUL AUG SEP OCT NOV DEC | .001 <t .000="" .002="" .003="" .004="" <<="" <t="" td=""><td>.004 .001 <t) .011 .011 .008 <t .005 <t .011 .005 <t .011 .007 <t .003 <t .046.940 46.670 46.740 46.140 48.020 46.740</t </t </t </t </t </t </td><td>DET'N LIMIT = 0.002</td><td>GUIDELINE = 500 (A3) 47.820 73.910 65.320 65.520 63.930 51.740</td></t> | .004 .001 <t) .011 .011 .008 <t .005 <t .011 .005 <t .011 .007 <t .003 <t .046.940 46.670 46.740 46.140 48.020 46.740</t </t </t </t </t </t | DET'N LIMIT = 0.002 | GUIDELINE = 500 (A3) 47.820 73.910 65.320 65.520 63.930 51.740 |
| PHOSPHORU MAR APR MAY JUN JUL AUG SEP OCT NOV DEC SULPHATE MAR APR MAY JUN JUL AUG SEP MAY JUN JUL AUG SEP | .001 <t .000="" .002="" .003="" .004="" <<="" <t="" td=""><td>.004 .001 <t) .011 .008 <t .005 <t .011 .005 <t .011 .007 <t .003 <t .003 <t .046.940 46.670 46.740 46.140 48.020 46.740 46.210</t </t </t </t </t </t </t </td><td>DET'N LIMIT = 0.002 DET'N LIMIT = .200 51.340 61.560 48.960 61.130 46.400 46.660</td><td>GUIDELINE = 500 (A3) 47.820 73.910 65.320 65.520 63.930 51.740 47.000</td></t> | .004 .001 <t) .011 .008 <t .005 <t .011 .005 <t .011 .007 <t .003 <t .003 <t .046.940 46.670 46.740 46.140 48.020 46.740 46.210</t </t </t </t </t </t </t | DET'N LIMIT = 0.002 DET'N LIMIT = .200 51.340 61.560 48.960 61.130 46.400 46.660 | GUIDELINE = 500 (A3) 47.820 73.910 65.320 65.520 63.930 51.740 47.000 |
| PHOSPHORU MAR APR MAY JUN JUL AUG SEP OCT NOV DEC SULPHATE MAR APR MAY JUN JUL AUG SEP OCT MAR APR MAY JUN JUL AUG SEP OCT | .001 <t< td=""><td>.004 .001 <t) .011 .011 .008 <t .005 <t .005 <t .001 .007 <t .003 <t .003 <t .004 .007 <t .005 <t .007 <t .004 .007 <t .004 .007 <t .003 <t .004 .007 <t .003 <t .004 .007 <t .004 .007 <t .005 <t .007 <t .008 <t .007 <t .008 <t .009 <t .0</t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </td><td>DET'N LIMIT = 0.002</td><td>GUIDELINE = 500 (A3) 47.820 73.910 65.320 65.520 63.930 51.740 47.000 45.760</td></t<> | .004 .001 <t) .011 .011 .008 <t .005 <t .005 <t .001 .007 <t .003 <t .003 <t .004 .007 <t .005 <t .007 <t .004 .007 <t .004 .007 <t .003 <t .004 .007 <t .003 <t .004 .007 <t .004 .007 <t .005 <t .007 <t .008 <t .007 <t .008 <t .009 <t .0</t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t </t | DET'N LIMIT = 0.002 | GUIDELINE = 500 (A3) 47.820 73.910 65.320 65.520 63.930 51.740 47.000 45.760 |
| PHOSPHORU MAR APR MAY JUN JUL AUG SEP OCT NOV DEC SULPHATE MAR APR MAY JUN JUL AUG SEP MAY JUN JUL AUG SEP | .001 <t .000="" .002="" .003="" .004="" <<="" <t="" td=""><td>.004 .001 <t) .011 .008 <t .005 <t .011 .005 <t .011 .007 <t .003 <t .003 <t .046.940 46.670 46.740 46.140 48.020 46.740 46.210</t </t </t </t </t </t </t </td><td>DET'N LIMIT = 0.002 DET'N LIMIT = .200 51.340 61.560 48.960 61.130 46.400 46.660</td><td>GUIDELINE = 500 (A3) 47.820 73.910 65.320 65.520 63.930 51.740 47.000</td></t> | .004 .001 <t) .011 .008 <t .005 <t .011 .005 <t .011 .007 <t .003 <t .003 <t .046.940 46.670 46.740 46.140 48.020 46.740 46.210</t </t </t </t </t </t </t | DET'N LIMIT = 0.002 DET'N LIMIT = .200 51.340 61.560 48.960 61.130 46.400 46.660 | GUIDELINE = 500 (A3) 47.820 73.910 65.320 65.520 63.930 51.740 47.000 |

WATER TREATMENT PLANT

| RA | M | TREATED | SITE 1 | | |
|-----------|--------|---------|--------------------|-------------------------------|-----|
| | | | STANDING | FREE FLOW | |
| TURBIDITY | (FTU) | | DET'N LIMIT = 0.05 | GUIDELINE = 1 | (A1 |
| MAR | .430 | .400 | | .410 | |
| APR | .440 | .310 | .440 | .480 | |
| HAY | .820 | .290 | .500 | .280 | |
| JUN | 1.100 | .700 | 1.100 | .380 | |
| JUL | .450 | .410 | 1,100 | .520 | |
| AUG | .990 | .700 | .600 | .210 <t< td=""><td></td></t<> | |
| SEP | .520 | .400 | .490 | .380 | |
| OCT | .360 | .370 | .480 | .300 | |
| NOV | .380 | .350 | .470 | .180 <t< td=""><td></td></t<> | |
| DEC | .530 | .360 | .890 | .520 | |

WATER TREATMENT PLANT

| RA | W | TREATED | SITE 1 | | |
|------------|---|--|---|------------------------|--|
| | | | STAND1NG | FREE FLOW | |
| | METALS | | | 400 (4/) | |
| ALUMINUM (| (UG/L) | | DET'N LIMIT = 0.10 | GUIDELINE = 100 (A4) | |
| MAR | 5,400 | 6.400 | | 10.000 | |
| APR | 6.900 | 7.400 | 29.000 | 130.000 | |
| HAY | 24.000 | 26.000 | 89.000 | 120.000 | |
| JUN | 15.000 | 17.000 | 44.000 | 210.000 | |
| JUL | 2.800 | 3.000 | 150.000 | 160.000 | |
| AUG | 4.200 | 6.900 | 27.000 | 51.000 | |
| SEP | 6.000 | 7.100 | 30.000 | 11.000 | |
| OCT | 1.800 | 1.900 | 24.000 | 6.600 89.000 | |
| NOV | 2.500 | 2.400 | 97.000 | 82.000 | |
| DEC | 2.400 | 3.700 | 100.000 | | |
| ARSENIC (L | JG/L) | | DET'N LIMIT = 0.10 | GUIDELINE = 25 (A1) | |
| MAR | .280 <t< td=""><td>.540 <t< td=""><td></td><td>.590 <t< td=""></t<></td></t<></td></t<> | .540 <t< td=""><td></td><td>.590 <t< td=""></t<></td></t<> | | .590 <t< td=""></t<> | |
| APR | .900 <t< td=""><td>1.100</td><td>1.200</td><td>.570 <t< td=""></t<></td></t<> | 1.100 | 1.200 | .570 <t< td=""></t<> | |
| HAY | BDL | .540 <t< td=""><td>.720 <t< td=""><td>.650 <t< td=""></t<></td></t<></td></t<> | .720 <t< td=""><td>.650 <t< td=""></t<></td></t<> | .650 <t< td=""></t<> | |
| JUN | BOL | BDL BDL | BDL | .550 <t< td=""></t<> | |
| JUL | BDL | BDL | .740 <t< td=""><td>.790 <7</td></t<> | .790 <7 | |
| AUG | BDL | .540 <t< td=""><td>.740 <t .290 <t< td=""><td>.690 <t< td=""></t<></td></t<></t </td></t<> | .740 <t .290 <t< td=""><td>.690 <t< td=""></t<></td></t<></t | .690 <t< td=""></t<> | |
| SEP | BDL | .520 <t< td=""><td>.530 <t< td=""><td>.440 <t< td=""></t<></td></t<></td></t<> | .530 <t< td=""><td>.440 <t< td=""></t<></td></t<> | .440 <t< td=""></t<> | |
| OCT | .390 <t< td=""><td>.470 <t< td=""><td>.520 <t< td=""><td>.400 <t< td=""></t<></td></t<></td></t<></td></t<> | .470 <t< td=""><td>.520 <t< td=""><td>.400 <t< td=""></t<></td></t<></td></t<> | .520 <t< td=""><td>.400 <t< td=""></t<></td></t<> | .400 <t< td=""></t<> | |
| NOV | BDL | BDL | .180 <t< td=""><td>BOL</td></t<> | BOL | |
| DEC | BOL | BDL | .360 <t< td=""><td>.290 <t< td=""></t<></td></t<> | .290 <t< td=""></t<> | |
| BARIUM (UC | G/L) | | DET'N LIMIT = 0.05 | GUIDELINE = 1000 (A2) | |
| MAR | 54.000 | EE 000 | | 56.000 | |
| APR | | 55.000 55.000 | 62,000 | 50.000 | |
| MAY | 54.000 52.000 | 53.000 | 49.000 | 44.000 | |
| JUN | 51.000 | 51.000 | 54.000 | 47.000 | |
| JUL . | 53.000 | 53.000 | 54.000 | 51.000 | |
| AUG | 55.000 | 55.000 | 59.000 | 47.000 | |
| SEP | 67.000 | 67.000 | 68.000 | 65.000 | |
| OCT | 68,000 | 68.000 | 70.000 | 64.000 | |
| NOV | 60.000 | 61.000 | 57,000 | 50.000 | |
| DEC | 67.000 | 66.000 | 72.000 | 57.000 | |
| BORON (UG/ | 'L) | | DET'N LIMIT = 2.00 | GUIDELINE = 5000 (A1) | |
| MAR | 28.000 | 47.000 | 1 | 58.000 | |
| APR | 24.000 | 24.000 | 25.000 | 49.000 | |
| MAY | 95.000 | 85.000 | 80.000 | 79.000 | |
| JUN | 21.000 | 21.000 | 21.000 | 20.000 <t< td=""></t<> | |
| JUL | 32.000 | 33.000 | 27.000 | 26.000 | |
| AUG | 44.000 | 51.000 | 52.000 | 47.000 | |
| SEP | 49.000 | 46.000 | 54.000 | 50.000 | |
| OCT | 28.000 | 33.000 | 33.000 | 31.000 | |
| NOV | 31.000 | 32.000 | 27.000 | 26.000 | |
| DEC | 20.000 <t< td=""><td>22.000</td><td>18.000 <t< td=""><td>15.000 <t< td=""></t<></td></t<></td></t<> | 22.000 | 18.000 <t< td=""><td>15.000 <t< td=""></t<></td></t<> | 15.000 <t< td=""></t<> | |
| | | | | | |

WATER TREATMENT PLANT

| RA | 14 | TREATED | SITE 1 | |
|---|---|--|---|---|
| | | | STANDING | FREE FLOW |
| BERYLLIUM | (UG/L) | | | GUIDELINE = 6800 (D4) |
| MAR | BDL | .060 <7 | | .130 <t< td=""></t<> |
| APR | BOL | BOL | BDL | .060 <t< td=""></t<> |
| MAY | .070 <t< td=""><td>BDL</td><td>BDL</td><td>.060 <t< td=""></t<></td></t<> | BDL | BDL | .060 <t< td=""></t<> |
| JUN | BDL | BDL | BOL | BOL |
| JUL | BDL | BDL | BOL | BDL |
| AUG | BDL | .090 <t< td=""><td>.080 <t< td=""><td>BDL</td></t<></td></t<> | .080 <t< td=""><td>BDL</td></t<> | BDL |
| SEP | .080 <t< td=""><td>.080 <t< td=""><td>.080 <t< td=""><td>.100 <t< td=""></t<></td></t<></td></t<></td></t<> | .080 <t< td=""><td>.080 <t< td=""><td>.100 <t< td=""></t<></td></t<></td></t<> | .080 <t< td=""><td>.100 <t< td=""></t<></td></t<> | .100 <t< td=""></t<> |
| OCT | BDL | BOL | BDL | BOL |
| NOV | BDL | BDL | BDL | BDL |
| DEC | BDL | BOL | 80L | BDL |
| | IG/L) | | DET'N LIMIT = 0.05 | GUIDELINE = 5 (|
| MAR | BDL | BDL | | BDL |
| APR | BDL | BDL | .060 <t< td=""><td>BDL</td></t<> | BDL |
| MAY | BDL | BDL | BOL | BDL |
| JUN | BDL | BOL | BOL | BDL |
| JUL | BDL | BDL | BOL | BDL |
| AUG | BOL | BDL | BDL | BDL |
| SEP | BDL | BDL | .060 <t< td=""><td>BDL</td></t<> | BDL |
| OCT | BDL | BDL | BOL | BDL |
| NOV | BDL | BDL | BDL | BDL |
| DEC | BDL | 2.000 | BDL | BDL |
| COBALT (UG | | | DET'N LIMIT = 0.02 | GUIDELINE = N/A |
| MAR | BDL | BDL | | BDL |
| APR | BDL | BDL | .070 <t< td=""><td>.030 <t< td=""></t<></td></t<> | .030 <t< td=""></t<> |
| MAY | .050 <t< td=""><td>.140 <t< td=""><td></td><td>.090 <t< td=""></t<></td></t<></td></t<> | .140 <t< td=""><td></td><td>.090 <t< td=""></t<></td></t<> | | .090 <t< td=""></t<> |
| JUN | BOL | BDL | .080 <t< td=""><td>.050 <t< td=""></t<></td></t<> | .050 <t< td=""></t<> |
| JUL | .210 <t< td=""><td>.150 <t< td=""><td></td><td>.240 <t< td=""></t<></td></t<></td></t<> | .150 <t< td=""><td></td><td>.240 <t< td=""></t<></td></t<> | | .240 <t< td=""></t<> |
| AUG | BDL | BDL | BOL | BDL |
| SEP | .030 <t< td=""><td>.030 <t< td=""><td></td><td>.080 <t< td=""></t<></td></t<></td></t<> | .030 <t< td=""><td></td><td>.080 <t< td=""></t<></td></t<> | | .080 <t< td=""></t<> |
| OCT | BOL | .030 <t< td=""><td>.030 <7</td><td>BDL</td></t<> | .030 <7 | BDL |
| OUT | DOL | BDL | .030 <t< td=""><td>.050 <t< td=""></t<></td></t<> | .050 <t< td=""></t<> |
| NOV | BDL | | | |
| NOV | BOL | BDL | BDL | BDL |
| NOV DEC | | BOL | BDL | BDL |
| NOV DEC CHROMIUM (| BDL UG/L) 1.700 <t< td=""><td>80L 4.900 <t< td=""><td>BDL DET'N LIMIT = 0.50</td><td>GUIDELINE = 50 (A1) 6.200</td></t<></td></t<> | 80L 4.900 <t< td=""><td>BDL DET'N LIMIT = 0.50</td><td>GUIDELINE = 50 (A1) 6.200</td></t<> | BDL DET'N LIMIT = 0.50 | GUIDELINE = 50 (A1) 6.200 |
| NOV DEC CHROHIUM (MAR APR | BDL 1.700 <t bdl<="" td=""><td>4.900 <t< td=""><td>BDL DET'N LIMIT = 0.50 BDL</td><td>GUIDELINE = 50 (A1) 6.200 5.300</td></t<></td></t> | 4.900 <t< td=""><td>BDL DET'N LIMIT = 0.50 BDL</td><td>GUIDELINE = 50 (A1) 6.200 5.300</td></t<> | BDL DET'N LIMIT = 0.50 BDL | GUIDELINE = 50 (A1) 6.200 5.300 |
| NOV DEC CHROHIUM (MAR APR MAY | BDL 1.700 <t BDL 4.900 <t< td=""><td>4.900 <t BDL 4.200 <t< td=""><td>BDL BDL 3.900 <7</td><td>GJIDELINE = 50 (A1) 6.200 5.300 3.700 <t< td=""></t<></td></t<></t </td></t<></t | 4.900 <t BDL 4.200 <t< td=""><td>BDL BDL 3.900 <7</td><td>GJIDELINE = 50 (A1) 6.200 5.300 3.700 <t< td=""></t<></td></t<></t | BDL BDL 3.900 <7 | GJIDELINE = 50 (A1) 6.200 5.300 3.700 <t< td=""></t<> |
| NOV DEC CHROHIUM (MAR APR MAY JUN | BDL 1.700 <t .540="" 4.900="" <t="" <t<="" bdl="" td=""><td>4.900 <t BDL 4.200 <t .540 <t< td=""><td>BDL CET'N LIMIT = 0.50 BDL 3.900 < T BDL</td><td>GUIDELINE = 50 (A1) 6.200 5.300 3.700 <t< td=""></t<></td></t<></t </t </td></t> | 4.900 <t BDL 4.200 <t .540 <t< td=""><td>BDL CET'N LIMIT = 0.50 BDL 3.900 < T BDL</td><td>GUIDELINE = 50 (A1) 6.200 5.300 3.700 <t< td=""></t<></td></t<></t </t | BDL CET'N LIMIT = 0.50 BDL 3.900 < T BDL | GUIDELINE = 50 (A1) 6.200 5.300 3.700 <t< td=""></t<> |
| NOV DEC CHROMIUM (MAR APR MAY JUN JUL | BDL 1.700 <t .540="" 3.400="" 4.900="" <t="" <t<="" bdl="" td=""><td>4.900 <t BDL 4.200 <t .540 <t 3.600 <t< td=""><td>BDL DET'N LIMIT = 0.50 BDL 3.900 <t 2.800="" <t<="" bdl="" td=""><td>GUIDELINE = 50 (A1) 6.200 5.300 3.700 <t< td=""></t<></td></t></td></t<></t </t </t </td></t> | 4.900 <t BDL 4.200 <t .540 <t 3.600 <t< td=""><td>BDL DET'N LIMIT = 0.50 BDL 3.900 <t 2.800="" <t<="" bdl="" td=""><td>GUIDELINE = 50 (A1) 6.200 5.300 3.700 <t< td=""></t<></td></t></td></t<></t </t </t | BDL DET'N LIMIT = 0.50 BDL 3.900 <t 2.800="" <t<="" bdl="" td=""><td>GUIDELINE = 50 (A1) 6.200 5.300 3.700 <t< td=""></t<></td></t> | GUIDELINE = 50 (A1) 6.200 5.300 3.700 <t< td=""></t<> |
| NOV DEC CHROMIUM (MAR APR MAY JUN JUL AUG | BDL 1.700 <t .540="" 3.400="" 3.700="" 4.900="" <t="" <t<="" bdl="" td=""><td>4.900 <t BDL 4.200 <t .540 <t 3.600 <t 5.000 <t< td=""><td>BDL DET'N LIMIT = 0.50 BDL 3.900 < T BDL 2.800 < T 5.200</td><td>GUIDELINE = 50 (A1) 6.200 5.300 3.700 <t< td=""></t<></td></t<></t </t </t </t </td></t> | 4.900 <t BDL 4.200 <t .540 <t 3.600 <t 5.000 <t< td=""><td>BDL DET'N LIMIT = 0.50 BDL 3.900 < T BDL 2.800 < T 5.200</td><td>GUIDELINE = 50 (A1) 6.200 5.300 3.700 <t< td=""></t<></td></t<></t </t </t </t | BDL DET'N LIMIT = 0.50 BDL 3.900 < T BDL 2.800 < T 5.200 | GUIDELINE = 50 (A1) 6.200 5.300 3.700 <t< td=""></t<> |
| NOV DEC CHROMIUM (MAR APR MAY JUN JUL | BDL 1.700 <t .540="" 3.400="" 4.900="" <t="" <t<="" bdl="" td=""><td>4.900 <t BDL 4.200 <t .540 <t 3.600 <t< td=""><td>BDL DET'N LIMIT = 0.50 BDL 3.900 < T BDL 2.800 < T 5.200</td><td>BDL GUIDELINE = 50 (A1) 6.200 5.300 3.700 <t 2.600="" <t<="" bdl="" td=""></t></td></t<></t </t </t </td></t> | 4.900 <t BDL 4.200 <t .540 <t 3.600 <t< td=""><td>BDL DET'N LIMIT = 0.50 BDL 3.900 < T BDL 2.800 < T 5.200</td><td>BDL GUIDELINE = 50 (A1) 6.200 5.300 3.700 <t 2.600="" <t<="" bdl="" td=""></t></td></t<></t </t </t | BDL DET'N LIMIT = 0.50 BDL 3.900 < T BDL 2.800 < T 5.200 | BDL GUIDELINE = 50 (A1) 6.200 5.300 3.700 <t 2.600="" <t<="" bdl="" td=""></t> |
| NOV DEC CHROMIUM (MAR APR MAY JUN JUL AUG | BDL 1.700 <t 3.400="" 3.700="" 4.900="" 5.000="" 5.40="" <t="" <t<="" bdl="" td=""><td>4.900 <t BDL 4.200 <t .540 <t 3.600 <t 5.000 <t< td=""><td>BDL DET'N LIMIT = 0.50 BDL 3.900 <t 2.800="" 5.200="" 5.400="" 7.900<="" <t="" bdl="" td=""><td>BDL GUIDELINE = 50 (A1) 6.200 5.300 3.700 <t 2.600="" 4.200="" 5.000="" 6.100<="" <t="" bdl="" td=""></t></td></t></td></t<></t </t </t </t </td></t> | 4.900 <t BDL 4.200 <t .540 <t 3.600 <t 5.000 <t< td=""><td>BDL DET'N LIMIT = 0.50 BDL 3.900 <t 2.800="" 5.200="" 5.400="" 7.900<="" <t="" bdl="" td=""><td>BDL GUIDELINE = 50 (A1) 6.200 5.300 3.700 <t 2.600="" 4.200="" 5.000="" 6.100<="" <t="" bdl="" td=""></t></td></t></td></t<></t </t </t </t | BDL DET'N LIMIT = 0.50 BDL 3.900 <t 2.800="" 5.200="" 5.400="" 7.900<="" <t="" bdl="" td=""><td>BDL GUIDELINE = 50 (A1) 6.200 5.300 3.700 <t 2.600="" 4.200="" 5.000="" 6.100<="" <t="" bdl="" td=""></t></td></t> | BDL GUIDELINE = 50 (A1) 6.200 5.300 3.700 <t 2.600="" 4.200="" 5.000="" 6.100<="" <t="" bdl="" td=""></t> |
| NOV DEC CHROMIUM (MAR APR MAY JUN JUL AUG SEP | BDL 1.700 < T BDL 4.900 < T .540 < T 3.400 < T 3.700 < T 5.000 < T | 4.900 <t BDL 4.200 <t .540 <t 3.600 <t 5.000 <t 4.300 <t< td=""><td>BDL DET'N LIMIT = 0.50 BDL 3.900 <t 2.800="" 5.200="" 5.400="" 7.900<="" <t="" bdl="" td=""><td>BDL GUIDELINE = 50 (A1) 6.200 5.300 3.700 <t 2.600="" 4.200="" 5.000="" <t="" <t<="" bdl="" td=""></t></td></t></td></t<></t </t </t </t </t | BDL DET'N LIMIT = 0.50 BDL 3.900 <t 2.800="" 5.200="" 5.400="" 7.900<="" <t="" bdl="" td=""><td>BDL GUIDELINE = 50 (A1) 6.200 5.300 3.700 <t 2.600="" 4.200="" 5.000="" <t="" <t<="" bdl="" td=""></t></td></t> | BDL GUIDELINE = 50 (A1) 6.200 5.300 3.700 <t 2.600="" 4.200="" 5.000="" <t="" <t<="" bdl="" td=""></t> |

WATER TREATMENT PLANT

| RAW | | TREATED | SITE 1 | | |
|--------------|--|---|--|---------------------------------|------|
| | | | STANDING | FREE FLOW | |
| COPPER (UG/L |) | •••••• | DET'N LIMIT = 0.50 | GUIDELINE = 1000 | (EA) |
| NAR | .780 <t< td=""><td>1.300 <t< td=""><td>360.000</td><td>42.000</td><td></td></t<></td></t<> | 1.300 <t< td=""><td>360.000</td><td>42.000</td><td></td></t<> | 360.000 | 42.000 | |
| APR | .720 <t< td=""><td>1.100 <t< td=""><td>360.000</td><td>32.000</td><td></td></t<></td></t<> | 1.100 <t< td=""><td>360.000</td><td>32.000</td><td></td></t<> | 360.000 | 32.000 | |
| HAY | .890 <t< td=""><td>1.300 <t< td=""><td>220.000</td><td>33.000</td><td></td></t<></td></t<> | 1.300 <t< td=""><td>220.000</td><td>33.000</td><td></td></t<> | 220.000 | 33.000 | |
| JUN | 1.000 <t< td=""><td>1.500 <t< td=""><td>430.000</td><td>32.000</td><td></td></t<></td></t<> | 1.500 <t< td=""><td>430.000</td><td>32.000</td><td></td></t<> | 430.000 | 32.000 | |
| JUL | 1.100 <t< td=""><td>1.300 <t< td=""><td>280.000 340.000 310.000 320.000</td><td>32.000</td><td></td></t<></td></t<> | 1.300 <t< td=""><td>280.000 340.000 310.000 320.000</td><td>32.000</td><td></td></t<> | 280.000 340.000 310.000 320.000 | 32.000 | |
| AUG | .720 <t .920 <t< td=""><td>1.400 <1</td><td>340.000</td><td>46.000 31.000</td><td></td></t<></t | 1.400 <1 | 340.000 | 46.000 31.000 | |
| SEP | .920 <t< td=""><td>1.400 <t< td=""><td>310.000</td><td>36.000</td><td></td></t<></td></t<> | 1.400 <t< td=""><td>310.000</td><td>36.000</td><td></td></t<> | 310.000 | 36.000 | |
| OCT | 1.300 <t< td=""><td>1.400 <t< td=""><td>320.000</td><td>26.000</td><td></td></t<></td></t<> | 1.400 <t< td=""><td>320.000</td><td>26.000</td><td></td></t<> | 320.000 | 26.000 | |
| NOV | .990 <t 1.300 <t< td=""><td>1.100 <t 1.300 <t< td=""><td>200.000 280.000</td><td>28.000</td><td></td></t<></t </td></t<></t | 1.100 <t 1.300 <t< td=""><td>200.000 280.000</td><td>28.000</td><td></td></t<></t | 200.000 280.000 | 28.000 | |
| DEC | 1.300 <1 | 1.300 <1 | | | |
| IRON (UG/L |) | | DET'N LIMIT = 6.00 | GUIDELINE = 300 | (A3) |
| MAR | BDL | BDL | | BDL | |
| APR | RDI | pni | 18.000 <t< td=""><td>21.000 <t< td=""><td></td></t<></td></t<> | 21.000 <t< td=""><td></td></t<> | |
| MAY | BDL | BOL | 21.000 <t< td=""><td>8.000 <t< td=""><td></td></t<></td></t<> | 8.000 <t< td=""><td></td></t<> | |
| JUN | BDL | BUL | BOL | | |
| JUL | BDL | BOL | 72.000 | 15.000 <t< td=""><td></td></t<> | |
| AUG | BDL | BDL | 17.000 <1 | BDL | |
| SEP | BDL | BDL BDL | 7.300 <t< td=""><td>BDL</td><td></td></t<> | BDL | |
| OCT | BDL | | 14.000 <t< td=""><td>BOL</td><td></td></t<> | BOL | |
| NOV | BDL | BDL | 35.000 <t< td=""><td>6.900 <t< td=""><td></td></t<></td></t<> | 6.900 <t< td=""><td></td></t<> | |
| DEC | BDL | BDL | 59.000 <t< td=""><td>BOL</td><td></td></t<> | BOL | |
| MERCURY (UG | /L) | | DET'N LIMIT = 0.02 | GUIDELINE = 1. | (A1) |
| MAR | BDL | BDL. | | | |
| APR | BOL | BDL | • | | |
| HAY | BDL | BDL | | | |
| JUN | BDL | BDL | | | |
| JUL | BDL | BDL | • | | |
| AUG | BDL | BDL .040 <t< td=""><td>•</td><td>•</td><td></td></t<> | • | • | |
| SEP | BDL | .040 <t< td=""><td>•</td><td>•</td><td></td></t<> | • | • | |
| OCT | BDL | BDL | • * * * * * * * * * * * * * * * * * * * | • | |
| NOV | BDL | BDL | • | • | |
| DEC | .090 <t< td=""><td>.120</td><td>•</td><td>•</td><td></td></t<> | .120 | • | • | |
| MANGANESE (L | JG/L) | | DET'N LIMIT = 0.05 | GUIDELINE = 50 | (A3) |
| MAD | 700 | .720 | | .750 | |
| MAR APR | .790 1.300 | 1.300 | 1.700 | 3.300 | |
| MAY | 1.500 | 1.500 | 4.300 | 3.700 | |
| JUN | 1.200 | 1.300 | 3.400 | 3.700 | |
| JUL | 1.100 | 1.100 | 13.000 | 7.200 | |
| AUG | 1.300 | 1.200 | 2.200 | 1.700 | |
| SEP | 4.300 | 4.300 | 6.600 | 2.600 | |
| | 3.500 | 3.500 | 2.800 | 1.600 | |
| NOV | 3.300 | 3.300 | 2.300 | 1.300 | |
| DEC | 1.700 | 1.900 | 2.700 | 1.400 | |

WATER TREATMENT PLANT

| RAU | | TREATED | SITE 1 | | |
|---|--|--|---|--|------|
| | | | STANDING | FREE FLOW | |
| MOLYBDENUM | (UG/L) | | | .05 GUIDELINE = N/A | |
| MAR | .170 <7 | .150 <7 | | .070 <7 | |
| APR | -130 <t< td=""><td>.110 <7</td><td>.250 <1</td><td>.930</td><td></td></t<> | .110 <7 | .250 <1 | .930 | |
| HAY | .070 <t< td=""><td>.080 <t< td=""><td></td><td>.820</td><td></td></t<></td></t<> | .080 <t< td=""><td></td><td>.820</td><td></td></t<> | | .820 | |
| JUN | .110 <t< td=""><td>.120 <t< td=""><td>.600 .160 <1 .530 .160 <1 .170 <1</td><td>.750</td><td></td></t<></td></t<> | .120 <t< td=""><td>.600 .160 <1 .530 .160 <1 .170 <1</td><td>.750</td><td></td></t<> | .600 .160 <1 .530 .160 <1 .170 <1 | .750 | |
| JUL | BDL | BDL | .530 | .730 | |
| AUG | .120 <t< td=""><td>.160 <t< td=""><td>.160 <1</td><td>.270 <t< td=""><td></td></t<></td></t<></td></t<> | .160 <t< td=""><td>.160 <1</td><td>.270 <t< td=""><td></td></t<></td></t<> | .160 <1 | .270 <t< td=""><td></td></t<> | |
| SEP | .220 <t< td=""><td>.150 <t .160 <t< td=""><td>.170 <1</td><td>.150 <t .130 <t< td=""><td></td></t<></t </td></t<></t </td></t<> | .150 <t .160 <t< td=""><td>.170 <1</td><td>.150 <t .130 <t< td=""><td></td></t<></t </td></t<></t | .170 <1 | .150 <t .130 <t< td=""><td></td></t<></t | |
| OCT | .130 <t .140 <t< td=""><td>.160 <t< td=""><td>.150 <1</td><td>.130 <t< td=""><td></td></t<></td></t<></td></t<></t | .160 <t< td=""><td>.150 <1</td><td>.130 <t< td=""><td></td></t<></td></t<> | .150 <1 | .130 <t< td=""><td></td></t<> | |
| NOV | .140 <t< td=""><td>.140 <t< td=""><td></td><td></td><td></td></t<></td></t<> | .140 <t< td=""><td></td><td></td><td></td></t<> | | | |
| | .120 <t< td=""><td>.180 <t< td=""><td>.920</td><td>.980</td><td></td></t<></td></t<> | .180 <t< td=""><td>.920</td><td>.980</td><td></td></t<> | .920 | .980 | |
| NICKEL (UG. | /L) | | DET'N LIMIT = 0. | .20 GUIDELINE = 350 (| (D3) |
| MAR | BDL | BDL | | BDL | |
| APR | BDL | BDL | 1.200 <1 | BDL | |
| MAY | BDL BDL | BDL BDL | 510 <1 | BUI | |
| JUN | DD1 | BDL | BDL | BDL | |
| JUL | .630 <t .570 <t BDL</t </t | 1.200 <t< td=""><td>BDL 2.100</td><td>2.000 <t< td=""><td></td></t<></td></t<> | BDL 2.100 | 2.000 <t< td=""><td></td></t<> | |
| AUG | .570 <t< td=""><td>BDL BDL</td><td>1.300 <t 1.600 <t< td=""><td>.820 <t< td=""><td></td></t<></td></t<></t </td></t<> | BDL BDL | 1.300 <t 1.600 <t< td=""><td>.820 <t< td=""><td></td></t<></td></t<></t | .820 <t< td=""><td></td></t<> | |
| SEP | BDL | BDL | 1.600 <1 | BDL | |
| OCT | 2.100 | 2.200 | 3.800 | 2.500 | |
| NOV | BOL | RD! | .360 <1 | BDL | |
| DEC | BDL | BDL | BDL | BDL | |
| LEAD (UG/L | | | | 05 GUIDELINE = 10. | (A1 |
| MAR | .060 <t< td=""><td>.100 <t< td=""><td></td><td>.470 <t< td=""><td></td></t<></td></t<></td></t<> | .100 <t< td=""><td></td><td>.470 <t< td=""><td></td></t<></td></t<> | | .470 <t< td=""><td></td></t<> | |
| APR | BDL | .080 <t< td=""><td></td><td>.340 <t< td=""><td></td></t<></td></t<> | | .340 <t< td=""><td></td></t<> | |
| MAY | .060 <t .100 <t< td=""><td>.320 <t< td=""><td>3.500</td><td>.510</td><td></td></t<></td></t<></t | .320 <t< td=""><td>3.500</td><td>.510</td><td></td></t<> | 3.500 | .510 | |
| | 400 | | | | |
| JUN | .100 <1 | .100 <t< td=""><td>3.400</td><td>.510</td><td></td></t<> | 3.400 | .510 | |
| JUL | .100 <1 BDL | .100 <t< td=""><td>3.400</td><td>.500 <t< td=""><td></td></t<></td></t<> | 3.400 | .500 <t< td=""><td></td></t<> | |
| | BOL BOL | BDL | 3.400 4.900 | .500 <t< td=""><td></td></t<> | |
| JUL AUG SEP | BDL BDL BDL | .130 <t .090 <t< td=""><td>3.400 4.900 3.600 3.700</td><td>.500 <t< td=""><td></td></t<></td></t<></t | 3.400 4.900 3.600 3.700 | .500 <t< td=""><td></td></t<> | |
| JUL | BOL BOL BOL 100 <7 | BDL .130 <t .090 <t .080 <t< td=""><td>3.400 4.900 3.600 3.700 3.500</td><td>.500 <t .740</t </td><td></td></t<></t </t | 3.400 4.900 3.600 3.700 3.500 | .500 <t .740</t | |
| JUL AUG SEP OCT NOV | BOL BOL BOL 100 <7 | BDL .130 <t .090 <t .080 <t< td=""><td>3.400 4.900 3.600 3.700 3.500</td><td>.500 <t .740 .480 <t .540 .340 <t< td=""><td></td></t<></t </t </td></t<></t </t | 3.400 4.900 3.600 3.700 3.500 | .500 <t .740 .480 <t .540 .340 <t< td=""><td></td></t<></t </t | |
| JUL AUG SEP OCT NOV DEC | BOL BOL .100 <7 .070 <7 .240 <7 | BDL .130 <t .090 <t .080 <t .060 <t .230 <t< td=""><td>3.400 4.900 3.600 3.700 3.500 2.300 2.500</td><td>.500 <t .740 .480 <t .540 .340 <t< td=""><td></td></t<></t </t </td></t<></t </t </t </t | 3.400 4.900 3.600 3.700 3.500 2.300 2.500 | .500 <t .740 .480 <t .540 .340 <t< td=""><td></td></t<></t </t | |
| JUL AUG SEP OCT NOV DEC | BOL BOL BOL 100 <7 | BDL .130 <t .090 <t .080 <t .060 <t .230 <t< td=""><td>3.400 4.900 3.600 3.700 3.500 2.300 2.500</td><td>.500 <t .740 .480 <t .540 .340 <t .390 <t< td=""><td>5 (</td></t<></t </t </t </td></t<></t </t </t </t | 3.400 4.900 3.600 3.700 3.500 2.300 2.500 | .500 <t .740 .480 <t .540 .340 <t .390 <t< td=""><td>5 (</td></t<></t </t </t | 5 (|
| JUL AUG SEP OCT NOV DEC | BDL BDL BDL .100 <7 .070 <7 .240 <7 | BDL .130 <t .090 <t .080 <t .060 <t .230 <t< td=""><td>3.400 4.900 3.600 3.700 3.500 2.300 2.500 DET'N LIMIT = 0.</td><td>.500 <t .740 .480 <t .540 .340 <t .390 <t< td=""><td>5 (</td></t<></t </t </t </td></t<></t </t </t </t | 3.400 4.900 3.600 3.700 3.500 2.300 2.500 DET'N LIMIT = 0. | .500 <t .740 .480 <t .540 .340 <t .390 <t< td=""><td>5 (</td></t<></t </t </t | 5 (|
| JUL AUG SEP OCT NOV DEC INTIMONY (U | BOL BOL BOL .100 <t .070 <t .240 <t< td=""><td>BDL .130 <7 .090 <7 .080 <7 .060 <7 .230 <7 .330 <7</td><td>3.400 4.900 3.600 3.700 3.500 2.300 2.500 DET'N LIMIT = 0.</td><td>.500 <t .740 .480 <t .540 .340 <t .390 <t .380 <t .380 <t< td=""><td>5 (</td></t<></t </t </t </t </t </td></t<></t </t | BDL .130 <7 .090 <7 .080 <7 .060 <7 .230 <7 .330 <7 | 3.400 4.900 3.600 3.700 3.500 2.300 2.500 DET'N LIMIT = 0. | .500 <t .740 .480 <t .540 .340 <t .390 <t .380 <t .380 <t< td=""><td>5 (</td></t<></t </t </t </t </t | 5 (|
| JUL AUG SEP OCT NOV DEC | BOL BOL BOL .100 <t .070 <t .240 <t< td=""><td>BDL .130 <7 .090 <7 .080 <7 .060 <7 .230 <7 .330 <7 .340 <7 .350 <7</td><td>3.400 4.900 3.600 3.700 3.500 2.300 2.500 DET'N LIMIT = 0.</td><td>.500 <t .740 .480 <t .540 .340 <t .390 <t .05 GUIDELINE = 146 .380 <t .320 <t .250 <t< td=""><td>5 (</td></t<></t </t </t </t </t </t </td></t<></t </t | BDL .130 <7 .090 <7 .080 <7 .060 <7 .230 <7 .330 <7 .340 <7 .350 <7 | 3.400 4.900 3.600 3.700 3.500 2.300 2.500 DET'N LIMIT = 0. | .500 <t .740 .480 <t .540 .340 <t .390 <t .05 GUIDELINE = 146 .380 <t .320 <t .250 <t< td=""><td>5 (</td></t<></t </t </t </t </t </t | 5 (|
| JUL AUG SEP OCT NOV DEC HTIMONY (U | BOL BOL BOL .100 <t .070 <t .240 <t< td=""><td>.330 < T .340 < T .090 < T .080 < T .060 < T .230 < T .340 < T .350 < T .280 < T</td><td>3.400 4.900 3.600 3.700 3.500 2.300 2.500 DET'N LIMIT = 0.</td><td>.500 <t .740 .480 <t .540 .340 <t .390 <t .05 GUIDELINE = 146 .380 <t .320 <t .250 <t< td=""><td>5 (</td></t<></t </t </t </t </t </t </td></t<></t </t | .330 < T .340 < T .090 < T .080 < T .060 < T .230 < T .340 < T .350 < T .280 < T | 3.400 4.900 3.600 3.700 3.500 2.300 2.500 DET'N LIMIT = 0. | .500 <t .740 .480 <t .540 .340 <t .390 <t .05 GUIDELINE = 146 .380 <t .320 <t .250 <t< td=""><td>5 (</td></t<></t </t </t </t </t </t | 5 (|
| JUL AUG SEP OCT NOV DEC NTIMONY (U MAR APR MAY JUN | 80L 80L 100 < T .070 < T .240 < T .370 < T .430 < T .240 < T .310 < T | BDL .130 <7 .090 <7 .080 <7 .060 <7 .230 <7 .330 <7 .340 <7 .350 <7 | 3.400 4.900 3.600 3.700 3.500 2.300 2.500 DET'N LIMIT = 0. | .500 <t .740 .480 <t .540 .340 <t .390 <t .05 GUIDELINE = 146 .380 <t .320 <t .250 <t< td=""><td>5 (</td></t<></t </t </t </t </t </t | 5 (|
| JUL AUG SEP OCT NOV DEC NTIMONY (U MAR APR MAY JUN | 80L 80L 100 < T .070 < T .240 < T .370 < T .430 < T .240 < T .310 < T | .330 < T .340 < T .350 < T .360 < T .360 < T .360 < T .370 < T .37 | 3.400 4.900 3.600 3.700 3.500 2.300 2.500 DET'N LIMIT = 0. | .500 <t .740 .480 <t .540 .340 <t .390 <t .05 GUIDELINE = 146 .380 <t .320 <t .250 <t< td=""><td>5 (</td></t<></t </t </t </t </t </t | 5 (|
| JUL AUG SEP OCT NOV DEC NTIMONY (U MAR APR MAY JUN | 80L 80L 80L 100 < T .070 < T .240 < T .370 < T .430 < T .240 < T .310 < T .390 < T .400 < T | .330 < T .340 < T .350 < T .360 < T .36 | 3.400 4.900 3.600 3.700 3.500 2.300 2.500 DET'N LIMIT = 0. .670 .560 | .500 <t .740 .480 <t .540 .340 <t .390 <t .390 <t .380 <t .320 <t .250 <t .380 <t .490 <t< td=""><td>5 (</td></t<></t </t </t </t </t </t </t </t </t | 5 (|
| JUL AUG SEP OCT NOV DEC NTIMONY (U MAR APR MAY JUN | BOL BOL BOL .100 <t .070 <t .240 <t< td=""><td>.330 < T .340 < T .350 < T .360 < T .360 < T .360 < T .370 < T .37</td><td>3.400 4.900 3.600 3.700 2.300 2.500 DET'N LIMIT = 0. .670 .890 .670</td><td>.500 <t .740 .480 <t .540 .340 <t .390 <t .05 GUIDELINE = 146 .380 <t .250 <t .380 <t .490 <t .280 <t< td=""><td>5 (</td></t<></t </t </t </t </t </t </t </t </td></t<></t </t | .330 < T .340 < T .350 < T .360 < T .360 < T .360 < T .370 < T .37 | 3.400 4.900 3.600 3.700 2.300 2.500 DET'N LIMIT = 0. .670 .890 .670 | .500 <t .740 .480 <t .540 .340 <t .390 <t .05 GUIDELINE = 146 .380 <t .250 <t .380 <t .490 <t .280 <t< td=""><td>5 (</td></t<></t </t </t </t </t </t </t </t | 5 (|
| JUL AUG SEP OCT NOV DEC NTIMONY (L HAR APR MAY JUN JUL AUG SEP | 80L 80L 80L 100 < T .070 < T .240 < T .370 < T .430 < T .240 < T .310 < T .390 < T .400 < T | .330 < T .340 < T .350 < T .280 < T .350 < T .340 < T .350 < T .340 < T .350 < T .280 < T .28 | 3.400 4.900 3.600 3.700 2.300 2.300 2.500 DET'N LIMIT = 0. .670 .560 .890 .670 .760 | .500 <t .740 .480 <t .540 .340 <t .359 <t .500 <t .320 <t .320 <t .320 <t .250 <t .490 <t .280 <t .280 <t .280 <t< td=""><td>5 (</td></t<></t </t </t </t </t </t </t </t </t </t </t </t | 5 (|

WATER TREATMENT PLANT

| R | | TREATED | SITE 1 | |
|------------|---|---|---|-----------------------|
| | | | STANDING | FREE FLOW |
| SELENIUM | (UG/L) | | DET'N LIMIT = 1.00 | GUIDELINE = 10 (A1) |
| MAR | 1.100 <t< td=""><td>2.700 <t< td=""><td></td><td>1.500 <t< td=""></t<></td></t<></td></t<> | 2.700 <t< td=""><td></td><td>1.500 <t< td=""></t<></td></t<> | | 1.500 <t< td=""></t<> |
| APR | 1.600 <t< td=""><td>1,100 <t< td=""><td>1.200 <t< td=""><td>1.200 <t< td=""></t<></td></t<></td></t<></td></t<> | 1,100 <t< td=""><td>1.200 <t< td=""><td>1.200 <t< td=""></t<></td></t<></td></t<> | 1.200 <t< td=""><td>1.200 <t< td=""></t<></td></t<> | 1.200 <t< td=""></t<> |
| NAY | 2.400 <t< td=""><td>1.100 <t< td=""><td>2.200 <t< td=""><td>1.200 <t< td=""></t<></td></t<></td></t<></td></t<> | 1.100 <t< td=""><td>2.200 <t< td=""><td>1.200 <t< td=""></t<></td></t<></td></t<> | 2.200 <t< td=""><td>1.200 <t< td=""></t<></td></t<> | 1.200 <t< td=""></t<> |
| JUN | 1.300 <t< td=""><td>2,100 <t< td=""><td>1.100 <t< td=""><td>BDL</td></t<></td></t<></td></t<> | 2,100 <t< td=""><td>1.100 <t< td=""><td>BDL</td></t<></td></t<> | 1.100 <t< td=""><td>BDL</td></t<> | BDL |
| JUL | 1.300 <t< td=""><td>1.500 <t< td=""><td>1.800 <t< td=""><td>BOL</td></t<></td></t<></td></t<> | 1.500 <t< td=""><td>1.800 <t< td=""><td>BOL</td></t<></td></t<> | 1.800 <t< td=""><td>BOL</td></t<> | BOL |
| AUG | 1.100 <t< td=""><td>1.800 <t< td=""><td>3.600 <t< td=""><td>1.100 <t< td=""></t<></td></t<></td></t<></td></t<> | 1.800 <t< td=""><td>3.600 <t< td=""><td>1.100 <t< td=""></t<></td></t<></td></t<> | 3.600 <t< td=""><td>1.100 <t< td=""></t<></td></t<> | 1.100 <t< td=""></t<> |
| SEP | 1.200 <t< td=""><td>1.800 <t< td=""><td>. 1.300 <t< td=""><td>1.100 <t< td=""></t<></td></t<></td></t<></td></t<> | 1.800 <t< td=""><td>. 1.300 <t< td=""><td>1.100 <t< td=""></t<></td></t<></td></t<> | . 1.300 <t< td=""><td>1.100 <t< td=""></t<></td></t<> | 1.100 <t< td=""></t<> |
| OCT | 1.300 <t< td=""><td>1.500 <t< td=""><td>1.800 <t< td=""><td>2.000 <t< td=""></t<></td></t<></td></t<></td></t<> | 1.500 <t< td=""><td>1.800 <t< td=""><td>2.000 <t< td=""></t<></td></t<></td></t<> | 1.800 <t< td=""><td>2.000 <t< td=""></t<></td></t<> | 2.000 <t< td=""></t<> |
| NOV | BDL | 1.300 <t< td=""><td>BDL</td><td>BDL</td></t<> | BDL | BDL |
| DEC | 1.300 <t< td=""><td>BDL</td><td>BDL</td><td>BDL</td></t<> | BDL | BDL | BDL |
| STRONTIUM | (UG/L) | | DET'N LIMIT = 0.10 | GUIDELINE = N/A |
| MAR | 150.000 | 150,000 | | 150.000 |
| APR | 160.000 | 160.000 | 170.000 | 220.000 |
| HAY | 150.000 | 150,000 | 170,000 | 190.000 |
| JUN | 150.000 | 150.000 | 150.000 | 200.000 |
| JUL | 140.000 | 140.000 | 170.000 | 190.000 |
| AUG | 140.000 | 140.000 | 140.000 | 140.000 |
| SEP | 150.000 | 150.000 | 150.000 | 140.000 |
| OCT | 150.000 | 150.000 | 160.000 | 150.000 |
| NOV | 140.000 | 140.000 | 200.000 | 190.000 |
| DEC | 160.000 | 160.000 | 230.000 | 220.000 |
| MUINATIT | (UG/L) | | DET'N LIMIT = 0.50 | GUIDELINE = N/A |
| MAR | 13.000 | 14.000 | | 13.000 |
| APR | 14.000 | 14.000 | 14.000 | 9.000 |
| MAY | 24.000 | 25.000 | 21.000 | 20.000 |
| JUN | 21.000 | 22.000 | 24.000 | 18.000 |
| JUL | 21.000 | 23.000 | 22.000 | 21.000 |
| AUG | 17.000 | 17.000 | 17.000 | 15.000 |
| SEP | 22.000 | 24.000 | 23.000 | 23.000 |
| OCT NOV | 6.100 12.000 | 6.700 | 6.600 | 6.600 |
| DEC | 15.000 | 13.000 17.000 | 9.100 13.000 | 8.300 11.000 |
| | | | | |
| THALLIUM | (UG/L) | | DET'N LIMIT = 0.05 | GUIDELINE = 13 (D4) |
| MAR | BDL | BDL | • | BOL |
| APR | - BDL | BDL | .060 <t< td=""><td>BDL</td></t<> | BDL |
| MAY | BDL | BDL | BDL | BDL |
| JUN | BDL | BDL | BDL | BOL |
| JUL | BDL | · BDL | BOL | BDL |
| AUG | BDL | BDL | BDL | BDL |
| SEP | BDL | BDL | BDL | BDL |

OCT

NOV

DEC

BOL

BDL

BOL

BDL

BDL

BDL

BDL

BDL

BDL

BDL

BDL

BDL

WATER TREATMENT PLANT

| | RAW | TREATED | SITE 1 | |
|---------|---|--|---|----------------------|
| | | | STANDING | |
| URANIUM | (UG/L) | | | GUIDELINE = 100 (A1) |
| MAR | .420 <t< td=""><td>.450 <t< td=""><td></td><td>.480 <t< td=""></t<></td></t<></td></t<> | .450 <t< td=""><td></td><td>.480 <t< td=""></t<></td></t<> | | .480 <t< td=""></t<> |
| APR | | .490 <7 | .650 | 1.600 |
| HAY | .400 1 | .400 1 | .820 | 1.100 |
| JUN | .430 <t< td=""><td>.420 <t< td=""><td>.500 <t< td=""><td></td></t<></td></t<></td></t<> | .420 <t< td=""><td>.500 <t< td=""><td></td></t<></td></t<> | .500 <t< td=""><td></td></t<> | |
| JUL | .430 <t< td=""><td>.420 <t< td=""><td></td><td>.930</td></t<></td></t<> | .420 <t< td=""><td></td><td>.930</td></t<> | | .930 |
| AUG | | .410 <t< td=""><td>.460 <t< td=""><td>.610</td></t<></td></t<> | .460 <t< td=""><td>.610</td></t<> | .610 |
| SEP | .470 <t< td=""><td>.410 <t .470 <t< td=""><td>.550</td><td>.490 <t< td=""></t<></td></t<></t </td></t<> | .410 <t .470 <t< td=""><td>.550</td><td>.490 <t< td=""></t<></td></t<></t | .550 | .490 <t< td=""></t<> |
| OCT | | .470 <t< td=""><td>.520</td><td>.480 <t< td=""></t<></td></t<> | .520 | .480 <t< td=""></t<> |
| NOV | .440 <t< td=""><td>.460 <t< td=""><td>1.000</td><td>1.100</td></t<></td></t<> | .460 <t< td=""><td>1.000</td><td>1.100</td></t<> | 1.000 | 1.100 |
| DEC | .420 <t< td=""><td></td><td>1.300</td><td>1.400</td></t<> | | 1.300 | 1.400 |
| | H (UG/L) | | | GUIDELINE = N/A |
| MAR | .230 <t< td=""><td>.400 <t< td=""><td></td><td>.410 <t< td=""></t<></td></t<></td></t<> | .400 <t< td=""><td></td><td>.410 <t< td=""></t<></td></t<> | | .410 <t< td=""></t<> |
| APR | | 1.300 | 1.200 | .320 <t< td=""></t<> |
| HAY | .240 <t< td=""><td>.210 <t< td=""><td>.220 <t< td=""><td>.270 <t< td=""></t<></td></t<></td></t<></td></t<> | .210 <t< td=""><td>.220 <t< td=""><td>.270 <t< td=""></t<></td></t<></td></t<> | .220 <t< td=""><td>.270 <t< td=""></t<></td></t<> | .270 <t< td=""></t<> |
| JUN | BDL .290 <7 | BDL | .070 <t< td=""><td>.170 <7</td></t<> | .170 <7 |
| JUL | .290 <t< td=""><td>.270 <7</td><td></td><td>.350 <t< td=""></t<></td></t<> | .270 <7 | | .350 <t< td=""></t<> |
| AUG | .210 <t< td=""><td>. 190 <t< td=""><td></td><td>.160 <7</td></t<></td></t<> | . 190 <t< td=""><td></td><td>.160 <7</td></t<> | | .160 <7 |
| SEP | TRD <t< td=""><td>. 14B <t< td=""><td>.240 <t< td=""><td>.190 <7</td></t<></td></t<></td></t<> | . 14B <t< td=""><td>.240 <t< td=""><td>.190 <7</td></t<></td></t<> | .240 <t< td=""><td>.190 <7</td></t<> | .190 <7 |
| OCT | .350° <t< td=""><td>.340 <t< td=""><td>.390 <7</td><td>.370 <7</td></t<></td></t<> | .340 <t< td=""><td>.390 <7</td><td>.370 <7</td></t<> | .390 <7 | .370 <7 |
| NOV | BDL | BDL | .120 <t< td=""><td>.090 <7</td></t<> | .090 <7 |
| DEC | .160 <t< td=""><td>.180 <t< td=""><td>.250 <t< td=""><td>.220 <t< td=""></t<></td></t<></td></t<></td></t<> | .180 <t< td=""><td>.250 <t< td=""><td>.220 <t< td=""></t<></td></t<></td></t<> | .250 <t< td=""><td>.220 <t< td=""></t<></td></t<> | .220 <t< td=""></t<> |
| ZINC (U | G/L) | | DET'N LIMIT = 0.20 | |
| HAR | | 1.800 <t< td=""><td></td><td>8.300</td></t<> | | 8.300 |
| APR | | 2.800 | | 4.200 |
| HAY | 2.000 <t 2.800</t | 8.100 | 61.000 | 6.300 |
| JUN | 2.800 | | 29.000 | 5.900 |
| JUL | 2.400 | 2.500 | 58.000 | 5.100 |
| AUG | 2.100 | 2.400 | 69.000 | 7.200 |
| SEP | 3.100 | 3.000 | 60.000 | 7.900 |
| OCT | 2.400 | 1.700 <t< td=""><td>60.000</td><td>5.900</td></t<> | 60.000 | 5.900 |
| NOV | 3.600 | 3.500 | 54.000 | 5.900 |
| DEC | 5.300 | 2.700 | 38.000 | 5.900 |

WATER TREATMENT PLANT

| , | RAW | TREATED | SITE 1 STANDING | FREE FLOW | |
|---|--|--|--------------------|------------------------|--|
| ATRAZINE | | ESTICIDES & PCB | DET'N LIMIT = 50 | GUIDELINE = 60000 (A2) | |
| MAR APR MAY JUN JUL AUG SEP | BDL BDL BDL 75.000 BDL BDL BDL | BDL BDL BDL BDL BDL CT BDL BDL | | | |
| OCT NOV DEC | BDL BDL BDL | 11S BDL 80.000 <t< td=""><td>:</td><td>i i</td></t<> | : | i i | |

WATER TREATMENT PLANT

| RAW | | TREATED | | SITE 1 | | | |
|-------------|-------------|--|-----------------------|--------------------|---------------|------|--|
| | | | | STANDING | FREE FLOW | | |
| PHENOLICS | | HENOLICS | | DET'N LIMIT = .200 | GUIDELINE = 2 | (A4) | |
| | | | | | | | |
| MAR- APR | 1.000 | | BDL BDL | • | : | | |
| YAM | BDL BDL | | .400 <t BDL</t | | | | |
| JUL | .400 | <t< td=""><td>BDL</td><td>•</td><td>•</td><td></td></t<> | BDL | • | • | | |
| AUG SEP | .800 BDL | | BDL BDL | • | • | | |
| OCT | BDL | | BDL | | | | |
| DEC | .800 | | .600 <t BDL</t | • | • | | |

WATER TREATMENT PLANT

| | RAW | TREATED | . SITE 1 | |
|---------|---|--|--------------------|----------------------|
| | | | STANDING | FREE FLOW |
| | VOLATI | | | MISTER SUF - F 444 |
| BENZENE | (UG/L) | | DET'N LIMIT = 0.05 | GUIDELINE = 5 (A1) |
| MAR | | BOL | | BDL |
| APR | BDL | .100 <t< td=""><td></td><td>.050 <t< td=""></t<></td></t<> | | .050 <t< td=""></t<> |
| HAY | BDL | .100 <t< td=""><td></td><td>BDL</td></t<> | | BDL |
| JUN | BDL | .050 <t< td=""><td>•</td><td>BDL</td></t<> | • | BDL |
| JUL | BDL | .050 <t< td=""><td>•</td><td>IEF</td></t<> | • | IEF |
| AUG | BDL | BDL | • | BDL |
| SEP | BDL | BDL | • | BOL |
| OCT | BDL | BDL | • | BDL |
| NOV | | BDL | | BDL |
| DEC | BDL | BOL | | BDL |
| | (UG/L) | | DET'N LIMIT = 0.05 | GUIDELINE = 24 (A3) |
| MAR | BDL | BDL | | BDL |
| APR | BDL | BDL | * • | BOL |
| HAY | BDL | BDL | | .200 <t< td=""></t<> |
| JUN | BDL | BDL | | .100 <t< td=""></t<> |
| JUL | BDL | BDL | | IEF |
| AUG | BDL | BDL | | BDL |
| SEP | BDL | BDL | | BDL |
| OCT | BDL | BDL | | BDL |
| NOV | BDL | BDL | | BDL |
| DEC | BDL | BDL | • | BDL |
| | NZENE (UG/L) |) | DET'N LIMIT = 0.05 | GUIDELINE = 2.4 (A3) |
| MAR | BDL | BOL | | BOL |
| APR | BDL | .050 <t< td=""><td></td><td>BDL</td></t<> | | BDL |
| MAY | .100 <t< td=""><td></td><td></td><td>.100 <t< td=""></t<></td></t<> | | | .100 <t< td=""></t<> |
| JUN | .050 <t< td=""><td>.150 <t< td=""><td></td><td>BDL</td></t<></td></t<> | .150 <t< td=""><td></td><td>BDL</td></t<> | | BDL |
| JUL | BDL | | | IEF |
| AUG | .100 <t< td=""><td>.100 <t< td=""><td></td><td>.100 <t< td=""></t<></td></t<></td></t<> | .100 <t< td=""><td></td><td>.100 <t< td=""></t<></td></t<> | | .100 <t< td=""></t<> |
| SEP | .050 <t< td=""><td>.150 <t< td=""><td></td><td>.050 <t< td=""></t<></td></t<></td></t<> | .150 <t< td=""><td></td><td>.050 <t< td=""></t<></td></t<> | | .050 <t< td=""></t<> |
| OCT | BDL | BDL | | BDL |
| NOA | .050 <t< td=""><td>.100 <t< td=""><td></td><td>.050 <t< td=""></t<></td></t<></td></t<> | .100 <t< td=""><td></td><td>.050 <t< td=""></t<></td></t<> | | .050 <t< td=""></t<> |
| DEC | BDL | BDL | | BDL |
| STYRENE | (UG/L) | ••••• | DET'N LIMIT = 0.05 | GUIDELINE = 100 (D1) |
| MAR | .100 <t< td=""><td>BDL</td><td></td><td>BDL</td></t<> | BDL | | BDL |
| APR | BDL | BDL | | BDL |
| MAY | .150 <t< td=""><td>.100 <t< td=""><td></td><td>.200 <t< td=""></t<></td></t<></td></t<> | .100 <t< td=""><td></td><td>.200 <t< td=""></t<></td></t<> | | .200 <t< td=""></t<> |
| JUN | .100 <t< td=""><td>BDL</td><td></td><td>BDL</td></t<> | BDL | | BDL |
| JUL | BDL | BDL . | | IEF |
| AUG | .200 <t< td=""><td>BDL</td><td></td><td>.050 <t< td=""></t<></td></t<> | BDL | | .050 <t< td=""></t<> |
| SEP | .150 <t< td=""><td>. BDL</td><td></td><td>BDL</td></t<> | . BDL | | BDL |
| OCT | .050 <t< td=""><td>BDL</td><td></td><td>BDL</td></t<> | BDL | | BDL |
| | .100 <t< td=""><td>BDL</td><td></td><td>.050 <t< td=""></t<></td></t<> | BDL | | .050 <t< td=""></t<> |
| NOV | | | | |
| NOV | BDL | BDL | | BDL |

WATER TREATMENT PLANT

| RAW | | TREATED | SITE 1 | |
|--|--|---|--------------------|--|
| | | | STANDING | FREE FLOW |
| T1,201CHL | OROETHYLENE (UG/L |) | DET'N LIMIT = 0.10 | GUIDELINE = 70 (D1) |
| MAR | BDL | BOL | | BOL |
| APR | BDL | BOL | | BOL |
| MAY | BOL | BDL | | BOL |
| JUN | BDL | BOL | | BOL |
| JUL | BDL | BDL | | IEF |
| AUG | BDL | .100 <t< td=""><td>•</td><td>BOL</td></t<> | • | BOL |
| SEP | .100 <t< td=""><td>.100 <t< td=""><td></td><td>.100 <t< td=""></t<></td></t<></td></t<> | .100 <t< td=""><td></td><td>.100 <t< td=""></t<></td></t<> | | .100 <t< td=""></t<> |
| OCT | BDL | BDL | | BDL |
| NOV | BOL | BOL | | BDL |
| DEC | BOL | BOL | | BOL |
| CHLOROFOR | M (UG/L) | | DET'N LIMIT = 0.10 | GUIDELINE = 350 (A1+ |
| MAR | .500 <t< td=""><td>13.100</td><td></td><td>9.300</td></t<> | 13.100 | | 9.300 |
| APR | .400 <t< td=""><td>17.400</td><td></td><td>79.600</td></t<> | 17.400 | | 79.600 |
| HAY | .700 <t< td=""><td>12.600</td><td></td><td>88.800</td></t<> | 12.600 | | 88.800 |
| JUN | .900 <t< td=""><td>16.800</td><td></td><td>94.000</td></t<> | 16.800 | | 94.000 |
| JUL | 1.500 | 15.000 | • | IEF |
| AUG | 1.600 | 16.500 | | 78.700 |
| SEP | 1.400 | 11.300 | | 11.200 |
| OCT | 1.000 | 10.200 | | 10.800 |
| NOV | .700 <t< td=""><td>8.000</td><td></td><td>87.700</td></t<> | 8.000 | | 87.700 |
| DEC | .400 <t< td=""><td>5.700</td><td></td><td>100.600</td></t<> | 5.700 | | 100.600 |
| | HLORDETHANE (UG/L | | DET'N LIMIT = 0.02 | GUIDELINE = 200 (D1) |
| MAR | .200 <t< td=""><td>.180 <t< td=""><td></td><td>.200 <t< td=""></t<></td></t<></td></t<> | .180 <t< td=""><td></td><td>.200 <t< td=""></t<></td></t<> | | .200 <t< td=""></t<> |
| APR | .140 <t< td=""><td>.140 <t< td=""><td></td><td>BOL</td></t<></td></t<> | .140 <t< td=""><td></td><td>BOL</td></t<> | | BOL |
| HAY | .220 | .180 <t< td=""><td></td><td>BOL.</td></t<> | | BOL. |
| JUN | .180 <t< td=""><td>.160 <t< td=""><td></td><td>BOL.</td></t<></td></t<> | .160 <t< td=""><td></td><td>BOL.</td></t<> | | BOL. |
| JUL | .200 <t< td=""><td>.220</td><td></td><td>1EF</td></t<> | .220 | | 1EF |
| AUG | .200 <t< td=""><td>.200 <1</td><td></td><td>BOL</td></t<> | .200 <1 | | BOL |
| SEP | .220 | .220 | | .200 |
| OCT | .160 <t< td=""><td>.160 <t< td=""><td></td><td>.160 <t< td=""></t<></td></t<></td></t<> | .160 <t< td=""><td></td><td>.160 <t< td=""></t<></td></t<> | | .160 <t< td=""></t<> |
| | | | | |
| NOV | .160 <t< td=""><td>.160 <t< td=""><td></td><td>BDL</td></t<></td></t<> | .160 <t< td=""><td></td><td>BDL</td></t<> | | BDL |
| DEC | .160 <t .160 <t< td=""><td>.160 <t .160 <t< td=""><td>:</td><td>60 L 80 L</td></t<></t </td></t<></t | .160 <t .160 <t< td=""><td>:</td><td>60 L 80 L</td></t<></t | : | 60 L 80 L |
| DEC | .160 <7 | | DET'N LIMIT = 0.10 | BOL |
| DEC | .160 <t< td=""><td>.160 <t< td=""><td>DET'N LIMIT = 0.10</td><td>GUIDELINE = 50 (A1</td></t<></td></t<> | .160 <t< td=""><td>DET'N LIMIT = 0.10</td><td>GUIDELINE = 50 (A1</td></t<> | DET'N LIMIT = 0.10 | GUIDELINE = 50 (A1 |
| TRICHLORO | .160 <t ETHYLENE (UG/L</t | .160 <t)="" 15.000="" 16.100<="" td=""><td>DET'N LIMIT = 0.10</td><td>GUIDELINE = 50 (A1 14.600 .300 <7</td></t> | DET'N LIMIT = 0.10 | GUIDELINE = 50 (A1 14.600 .300 <7 |
| DEC TRICHLORO | .160 <t ETHYLENE (UG/L 15.800</t | .160 <t< td=""><td>DET'N LIMIT = 0.10</td><td>GUIDELINE = 50 (A1</td></t<> | DET'N LIMIT = 0.10 | GUIDELINE = 50 (A1 |
| DEC FRICHLORO MAR APR | .160 <t ETHYLENE (UG/L 15.800 16.400</t | .160 <t)="" 15.000="" 16.100<="" td=""><td>DET'N LIMIT = 0.10</td><td>BOL GUIDELINE = 50 (A1 14.600 .300 < T .600 < T .300 < T</td></t> | DET'N LIMIT = 0.10 | BOL GUIDELINE = 50 (A1 14.600 .300 < T .600 < T .300 < T |
| RICHLORO MAR APR MAY | .160 <t ETHYLENE (UG/L 15.800 16.400 16.000</t | 15.000 16.100 15.700 | DET'N LIMIT = 0.10 | BDL GUIDELINE = 50 (A1 14.600 .300 < T .600 < T .300 < T IEF |
| DEC FRICHLORO MAR APR MAY JUN | .160 <t 14.000="" 15.800="" 16.000="" 16.400="" 16.500<="" 16.700="" td=""><td>15.000 16.100 15.700 13.300 18.700 17.200</td><td>DET'N LIMIT = 0.10</td><td>GUIDELINE = 50 (A1 14.600 .300 < T .600 < T .300 < T IEF 4.400</td></t> | 15.000 16.100 15.700 13.300 18.700 17.200 | DET'N LIMIT = 0.10 | GUIDELINE = 50 (A1 14.600 .300 < T .600 < T .300 < T IEF 4.400 |
| RICHLORO MAR APR MAY JUN JUL | .160 <t (ug="" 14.000="" 15.800="" 16.000="" 16.400="" 16.700<="" ethylene="" l="" td=""><td>15.000 16.100 15.700 13.300 18.700</td><td>DET'N LIMIT = 0.10</td><td>BDL GUIDELINE = 50 (A1 14.600 .300 < T .600 < T .300 < T .EF 4.400 22.800</td></t> | 15.000 16.100 15.700 13.300 18.700 | DET'N LIMIT = 0.10 | BDL GUIDELINE = 50 (A1 14.600 .300 < T .600 < T .300 < T .EF 4.400 22.800 |
| DEC TRICHLORO MAR APR MAY JUN JUL AUG | .160 <t 14.000="" 15.800="" 16.000="" 16.400="" 16.500<="" 16.700="" td=""><td>15.000 16.100 15.700 13.300 18.700 17.200</td><td>DET'N LIMIT = 0.10</td><td>BDL GUIDELINE = 50 (A1 14.600 .300 < T .600 < T .300 < T IEF 4.400 22.800 19.800</td></t> | 15.000 16.100 15.700 13.300 18.700 17.200 | DET'N LIMIT = 0.10 | BDL GUIDELINE = 50 (A1 14.600 .300 < T .600 < T .300 < T IEF 4.400 22.800 19.800 |
| DEC TRICHLORO MAR APR MAY JUN JUL AUG SEP | .160 <t (ug="" 14.000="" 15.800="" 16.000="" 16.400="" 16.500="" 16.700="" 22.700<="" ethylene="" l="" td=""><td>15.000 16.100 15.700 13.300 18.700 17.200 23.900</td><td>DET'N LIMIT = 0.10</td><td>BOL GUIDELINE = 50 (A1 14.600 .300 < T .600 < T .300 < T IEF 4.400 22.800</td></t> | 15.000 16.100 15.700 13.300 18.700 17.200 23.900 | DET'N LIMIT = 0.10 | BOL GUIDELINE = 50 (A1 14.600 .300 < T .600 < T .300 < T IEF 4.400 22.800 |

WATER TREATMENT PLANT

| RAW | | TREATED | SITE 1 | |
|-------------|--|---|--------------------|-----------------------|
| | | | STANDING | FREE FLOW |
| DICHLOROBR | OMOMETHANE (UG/L |) | DET'N LIMIT = 0.05 | GUIDELINE = 350 (A1+) |
| MAR | .150 <t< th=""><th>9.700</th><th></th><th>8.300</th></t<> | 9.700 | | 8.300 |
| APR | .100 <t< td=""><td>13.200</td><td></td><td>11.150</td></t<> | 13.200 | | 11.150 |
| MAY | .100 <t< td=""><td>9.150</td><td></td><td>9.700</td></t<> | 9.150 | | 9.700 |
| JUN | .100 <t< td=""><td>11.600</td><td>•</td><td>10.100</td></t<> | 11.600 | • | 10.100 |
| JUL | .150 <t< td=""><td>11.300</td><td>•</td><td>IEF</td></t<> | 11.300 | • | IEF |
| AUG | .100 <t< td=""><td>10.600</td><td>•</td><td>15.100</td></t<> | 10.600 | • | 15.100 |
| SEP | · .100 <t< td=""><td>8.950</td><td>•</td><td>9.100</td></t<> | 8.950 | • | 9.100 |
| OCT | .100 <t< td=""><td>9.400</td><td>•</td><td>9.350</td></t<> | 9.400 | • | 9.350 |
| NOV | .100 <t< td=""><td>8.250</td><td>•</td><td>9.700</td></t<> | 8.250 | • | 9.700 |
| | BDL | 6.950 | | 10.950 |
| 112 TRICHLO | DROETHANE (UG/L |) | DET'N LIMIT = 0.05 | GUIDELINE = .6 (D4) |
| MAR | BOL | BOL | | BDL |
| APR | BDL | BOL | | BDL |
| MAY | BDL | .100 <t< td=""><td></td><td>BDL</td></t<> | | BDL |
| JUN | BDL | BDL | | BDL |
| JUL | BDL | BDL | | 1EF |
| AUG | BDL | BOL | | BDL |
| SEP | BDL | BDL | | BDL |
| OCT | BDL | BDL | | BDL |
| NOV | BDL | BDL | • | BDL |
| DEC | BDL | BDL | • | BDL |
| | DHOMETHANE (UG/L |) | DET'N LIMIT = 0.10 | |
| MAR . | .200 <t< td=""><td>6.900</td><td></td><td>6.200</td></t<> | 6.900 | | 6.200 |
| APR | BDL | 8.400 | • | .600 <t< td=""></t<> |
| MAY | BDL | 6.200 | : | .800 <t< td=""></t<> |
| JUN | BDL | 6.400 | | .800 <t< td=""></t<> |
| JUL . | BDL | 7.700 | | 1EF |
| AUG | BDL | 6.600 | | 3.100 |
| SEP | BDL | 5.900 | | 6.200 |
| OCT | BDL | 7.000 | | 6.000 |
| NOV | BDL | 6.600 | • | .600 <t< td=""></t<> |
| DEC | BDL | 6.000 | • | .800 <t< td=""></t<> |
| | YLENE (UG/L |) | DET'N LIMIT = 0.05 | GUIDELINE = 5 (D1) |
| MAR | .150 <t< td=""><td>.150 <t< td=""><td></td><td>.150 <t< td=""></t<></td></t<></td></t<> | .150 <t< td=""><td></td><td>.150 <t< td=""></t<></td></t<> | | .150 <t< td=""></t<> |
| APR | .100 <t< td=""><td>.100 <t< td=""><td></td><td>BDL</td></t<></td></t<> | .100 <t< td=""><td></td><td>BDL</td></t<> | | BDL |
| MAY | BDL | .100 <t< td=""><td></td><td>.050 <t< td=""></t<></td></t<> | | .050 <t< td=""></t<> |
| JUN | .150 <t< td=""><td>.100 <t< td=""><td></td><td>BOL</td></t<></td></t<> | .100 <t< td=""><td></td><td>BOL</td></t<> | | BOL |
| JUL | .150 <t< td=""><td>.150 <t< td=""><td></td><td>IEF</td></t<></td></t<> | .150 <t< td=""><td></td><td>IEF</td></t<> | | IEF |
| AUG | .150 <t< td=""><td>.200 <t< td=""><td></td><td>.150 <t< td=""></t<></td></t<></td></t<> | .200 <t< td=""><td></td><td>.150 <t< td=""></t<></td></t<> | | .150 <t< td=""></t<> |
| SEP | .200 <t< td=""><td>.200 <t< td=""><td></td><td>.200 <t< td=""></t<></td></t<></td></t<> | .200 <t< td=""><td></td><td>.200 <t< td=""></t<></td></t<> | | .200 <t< td=""></t<> |
| OCT | .150 <t< td=""><td>.150 <t< td=""><td>•</td><td>.150 <t< td=""></t<></td></t<></td></t<> | .150 <t< td=""><td>•</td><td>.150 <t< td=""></t<></td></t<> | • | .150 <t< td=""></t<> |
| NOV | .150 <t< td=""><td>.150 <t< td=""><td>•</td><td>BDL</td></t<></td></t<> | .150 <t< td=""><td>•</td><td>BDL</td></t<> | • | BDL |
| DEC . | .150 <t< td=""><td>.150 <t< td=""><td>•</td><td>BDL</td></t<></td></t<> | .150 <t< td=""><td>•</td><td>BDL</td></t<> | • | BDL |

TABLE 5
DRINKING WATER SURVEILLANCE PROGRAM DELHI SPRING SUPPLY 1990

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

| RAM | | TREATED | SITE 1 | |
|-----------|---|---|--------------------|-----------------------|
| | | | STANDING | FREE FLOW |
| BROHOFORM | (UG/L) | | DET'N LIMIT = 0.20 | GUIDELINE = 350 (A1+ |
| MAR | BOL | 1.200 <t< td=""><td></td><td>1.200 <7</td></t<> | | 1.200 <7 |
| APR | BDL | 1.000 <t< td=""><td></td><td>BDL</td></t<> | | BDL |
| HAY | BDL | .800 <t< td=""><td></td><td>BDL</td></t<> | | BDL |
| JUN | BDL | .600 <t< td=""><td></td><td>BDL</td></t<> | | BDL |
| JUL | BOL | 1.000 <t< td=""><td></td><td>1EF</td></t<> | | 1EF |
| AUG | BOL | 1.000 <t< td=""><td>•</td><td>.200 <t< td=""></t<></td></t<> | • | .200 <t< td=""></t<> |
| SEP | BOL | 1.200 <t< td=""><td>•</td><td>1.200 <t< td=""></t<></td></t<> | • | 1.200 <t< td=""></t<> |
| OCT | BOL | 1.200 <t< td=""><td>•</td><td>1.000 <t< td=""></t<></td></t<> | • | 1.000 <t< td=""></t<> |
| NOV | BOL | 1.200 <t< td=""><td>•</td><td>BDL</td></t<> | • | BDL |
| DEC | BOL | 1.400 <t< td=""><td></td><td>BDL</td></t<> | | BDL |
| CHLOROBEN | ZENE (UG/L) | | DET'N LIMIT = 0.10 | GUIDELINE = 1510 (03 |
| MAR | BDL | BDL | | BDL |
| APR | BDL | BDL | | BOL |
| HAY | .200 <t< td=""><td>BDL</td><td></td><td>BOL</td></t<> | BDL | | BOL |
| JUN | BOL | BDL | | BOL |
| JUL | BDL | BDL | | !EF |
| AUG | BDL | BDL | | 80 L |
| SEP | BDL | BDL | | 80 L |
| OCT | BDL | BDL | | BDL |
| NOV | BDL | BDL | | BDL |
| DEC | BDL | BOL | | BOL |
| TOTAL TRI | HALOMETHANES (UG) | /L) | DET'N LIMIT = 0.50 | |
| HAR | .950 <t< td=""><td>30,900</td><td></td><td>25.050</td></t<> | 30,900 | | 25.050 |
| APR | BDL | 42,900 | | 91.350 |
| MAY | .800 <t< td=""><td>28.750</td><td></td><td>99.300</td></t<> | 28.750 | | 99.300 |
| JUN | 1.000 <t< td=""><td>35.400</td><td></td><td>104.900</td></t<> | 35.400 | | 104.900 |
| JUL | 1.800 <t< td=""><td>35.000</td><td></td><td>IEF</td></t<> | 35.000 | | IEF |
| AUG | 1.750 <t< td=""><td>34.750</td><td></td><td>97.050</td></t<> | 34.750 | | 97.050 |
| SEP | 1.550 <t< td=""><td>27.200</td><td></td><td>27.600</td></t<> | 27.200 | | 27.600 |
| OCT | 1.150 <t< td=""><td>27.750</td><td></td><td>27.100</td></t<> | 27.750 | | 27.100 |
| NOV | .750 <t< td=""><td>24.100</td><td></td><td>98.050</td></t<> | 24.100 | | 98.050 |
| DEC | BDL | 20.200 | | 112.350 |

TRACE LEVELS OF TOLUENE ARE LABORATORY ARTIFACTS DERIVED FROM THE ANALYTICAL METHODOLOGY.

TRACE LEVELS OF STYRENE ARE CONSIDERED TO BE LABORATORY ARTIFACTS RESULTING FROM THE LABORATORY SHIPPING CONTAINERS.

| | | DETECTION | | |
|--|----------------------|---------------|----------------------------|--------------|
| SCAN/PARAMETER | UNIT | LIMIT | GUIDELIN | E |
| ••••• | | | | - |
| DARTER OF BOLDAN | | | | |
| BACTERIOLOGICAL | | | | |
| FECAL COLIFORM MEMBRANE FILTRATION | CT/100HL | 0 | 0 | (A1) |
| STANDARD PLATE COUNT MEMBRANE FILT. | CT/ML | Ö | 500/ML | |
| TOTAL COLIFORM BACKGROUND MF | CT/100HL | 0 | N/A | |
| TOTAL COLIFORM MEMBRANE FILTRATION | CT/100ML | 0 | 5/100ML | (A1) |
| CHEMISTRY (FLD) | | | | |
| CHEMISTRY (TED) | | | | |
| FIELD COMBINED CHLORINE RESIDUAL | MG/L | 0 | N/A | |
| FIELD TOTAL CHLORINE RESIDUAL | MG/L | 0 | N/A | |
| FIELD FREE CHLORINE RESIDUAL | MG/L | 0 | N/A | |
| FIELD PH FIELD TEMPERATURE | DMNSLESS DEG.C | N/A N/A | 6.5-8.5 15.0 | (A3) |
| FIELD TURBIDITY | FTU | N/A | | (A1) |
| | | .,,,, | | , |
| CHEMISTRY (LAB) | | | | |
| ALKALINITY | MG/L | 0.2 | 30-500 | /A31 |
| AMMONIUM TOTAL | MG/L | 0.002 | 30-500 | (F2) |
| CALCIUM | MG/L | 0.2 | 100 | (F2) |
| CHLORIDE | MG/L | 0.2 | 2511 | (A3) |
| COLOUR | TCU | 0.5 | 5.0 | |
| CONDUCTIVITY | UNHO/CH | 1.0 | 400 | (F2) |
| DISSOLVED ORGANIC CARBON | MG/L MG/L | 0.001 0.1 | | (A1) (A3) |
| FLUORIDE | | 0.01 | | (A1) |
| HARDNESS | MG/L MG/L | 0.5 | 80-100 | (A4) |
| LANGELIERS INDEX | DMNSLESS | N/A 0.1 | N/A | |
| MAGNESIUM NITRITE | MG/L | 0.1 | 30.0 | |
| NITROGEN TOTAL KJELDAHL | MG/L MG/L | 0.001 | 1.0 N/A | (A1) |
| PH ROLL TOTAL ROLLDAILE | DMNSLESS | 0.02 N/A | 6.5-8.5 | (A4) |
| PHOSPHORUS FIL REACT | MG/L | 0.000 | 5 N/A 0.4 200 500 | (,,,, |
| PHOSPHORUS TOTAL | MG/L | 0.002 | 0.4 | |
| SOD I UM SULPHATE | MG/L MG/L | 0.2 | 200 500 | (A4) |
| TOTAL HITRATES | MG/L MG/L | 0.2 | 10.0 | (A3) |
| TURBIDITY | FTU | 0.005 0.05 | 1.0 | (A1) |
| | | 0.05 | | (11) |
| CHLOROAROMATICS | | | | |
| 123 TRICHLOROBENZENE | NG/L | 5.0 | N/A | |
| 1234 TETRACHLOROBENZENE | MG/I | 1.0 | N/A N/A | |
| 1235 TETRACHLOROBENZENE | NG/L NG/L | 1.0 | N/A | |
| 124 TRICHLOROBENZENE | NG/L | 5.0 | 10000 38000 | (1) |
| 1245-TETRACHLOROBENZENE 135 TRICHLOROBENZENE | NG/L NG/L NG/L | 1.0 | 38000 | (D4) |
| 236 TRICHLOROTOLUENE | NG/L | 5.0 5.0 | N/A | |
| 245 TRICHLOROTOLUENE | NG/L | 5.0 | N/A N/A | |
| 26A TRICHLOROTOLUENE | NG/L | 5.0 | N/A | |
| HEXACHLOROBENZENE | NG/L | 1.0 | | (01) |
| HEXACHLOROBUTAD I ENE | NG/L | 1.0 | 450 | |
| HEXACHLOROCYCLOPENTADIENE HEXACHLOROETHANE | NG/L | 5.0 | 206000 | |
| OCTACHLOROSTYRENE | NG/L NG/L | 1.0 | 1900 N/A | (D4) |
| PENTACHLOROBENZENE | NG/L | 1.0 | 74000 | (D4) |
| CHLOROPHENOLS | | | | |
| | | | | |
| 234 TRICHLOROPHENOL | NG/L | 100.0 | N/A | |
| 2345 TETRACHLOROPHENOL 2356 TETRACHLOROPHENOL | NG/L | 20.0 | N/A | |
| 2370 TETRACIILOROFILENUL | NG/L | 10.0 | N/A | |
| | | | | |

| SCAH/PARAMETER | UNIT | DETECTION LIMIT | GUIDELINE |
|--------------------------------------|--------------|--------------------|--------------------------|
| 245 TRICHLOROPHENOL | NG/L | 100.0 | 2600000 (D4) |
| 246 TRICHLOROPHENOL | NG/L | 20.0 | 5000 (A1) |
| PENTACHLOROPHENOL | NG/L | 10.0 | 60000 (A1) |
| METALS | | | |
| ALUHINUH | UG/L | 0.10 | 100 (A4) |
| ANTIMONY | UG/L | 0.05 | 146 (D4) |
| ARSENIC | UG/L | 0.10 | 25 (A1) |
| BARIUM | UG/L | 0.05 | 1000 (A2) |
| BERYLLIUM | UG/L | 0.05 | 6800 (04) |
| BORON | UG/L | 2.00 | 5000 (A1) |
| CADMIUM CHROMIUM | UG/L UG/L | 0.50 | 5 (A1) 50 (A1) |
| COBALT | UG/L | 0.02 | H/A |
| COPPER | UG/L | 0.50 | 1000 (A3) |
| IRON | UG/L | 6.00 | 300 (A3) |
| LEAD | UG/L | 0.05 | 10 (A1) |
| MANGANESE | UG/L | 0.05 | 50 (A3) |
| MERCURY MOLYBDENUM | UG/L UG/L | 0.02 | 1 (A1) H/A |
| NICKEL | UG/L | 0.20 | 350 (D3) |
| SELENIUM | UG/L | 1.00 | 10 (A1) |
| SILVER | UG/L | 0.05 0.10 | 50 (A1) |
| STRONTIUM | UG/L | 0.10 | N/A |
| THALLIUM | UG/L | 0.05 | 13 (04) |
| TITANIUM URANIUM | UG/L UG/L | 0.50 | N/A 100 (A1) |
| VANADIUM | UG/L | 0.05 | N/A |
| ZINC | UG/L | 0.20 | |
| PAH | | | |
| ANTHRACENE | NG/L | 1.0 | H/A |
| BENZO(A) ANTHRACENE | NG/L | 20.0 | N/A |
| BENZO(A) PYRENE BENZO(B) CHRYSENE | NG/L NG/L | 5.0 | 10.0 (A1) N/A |
| BENZO(B) FLUORANTHENE | NG/L | 10.0 | N/A |
| BENZO(E) PYRENE | NG/L | 50.0 | H/A |
| BENZO(G, H, I) PERYLENE | NG/L NG/L | 20.0 | H/A |
| BENZO(K) FLUORANTHENE | NG/L | 1.0 | N/A |
| CORONENE | NG/L NG/L | 50.0 10.0 | N/A N/A |
| DIBENZO(A,H) ANTHRACENE | NG/L | 10.0 | N/A |
| DIMETHYL BENZO(A) ANTHRACENE | NG/L | 5.0 | N/A |
| FLUORANTHENE | NG/L | 20.0 | 42000.0 (D4) |
| INDENO(1,2,3-C,D) PYRENE | NG/L | 20.0 | N/A |
| PERYLENE | NG/L | 10.0 10.0 | N/A N/A |
| PHENANTHRENE PYRENE | NG/L NG/L | 20.0 | N/A |
| PESTICIDES & PCB | | | |
| ALACHLOR (LASSO) | NG/L | 500.0 | 5000 (A2) |
| ALDRIN | NG/L | 1.0 | 700 (A1) |
| ALPHA HEXACHLOROCYCLOHEXANE (BHC) | NG/L | 1.0 | 700 (G) |
| ALPHA CHLORDANE AMETRINE | NG/L NG/L | 2.0 | 7000 (A1) 300000 (D3) |
| ATRATONE | NG/L | 50.0 | N/A |
| ATRAZINE | NG/L | 50.0 | 60000 (A2) |
| DES ETHYL ATRAZINE | NG/L | 200.0 | 60000 (A2) |
| BETA HEXACHLOROCYCLOHEXANE (BHC) | NG/L | 1.0 | 300 (G) |
| CYANAZINE (BLADEX) | NG/L NG/L | 109.0 5.0 | 10000 (A2) 10 (I) |
| O,P-DDD DIELDRIN | NG/L | 2.0 | 700 (A1) |
| ENDOSULFAN 1 (THIODAN I) | NG/L | 2.0 | 74000 (04) |
| ENDOSULFAN 2 (THIODAN II) | NG/L | 5.0 | 74000 (D4) |

| | | DETECTION | |
|---|--------------|---------------|--------------------------|
| SCAN/PARAMETER . | UNIT | LIMIT | GUIDELINE |
| ENDOSULFAN SULPHATE (THIODAN SULPHATE) | NG/L | 5.0 | N/A |
| ENDRIN | NG/L | 5.0 | 1600 (D3) |
| GAMMA CHLORDANE | NG/L | 2.0 | 7000 (A1) |
| HEPTACHLOR | NG/L | 1.0 | 3000 (A1) |
| HEPTACHLOR EPOXIDE | NG/L | 1.0 | 3000 (A1) |
| LINDANE (GAMMA BHC) | NG/L NG/L | 1.0 5.0 | 4000 (A1) 900000 (A1) |
| METHOXYCHLOR METOLACHLOR | NG/L | 500.0 | 50000 (A1) |
| METRIBUZIN (SENCOR) | NG/L | 100.0 | 80000 (A1) |
| MIREX | NG/L | 5.0 | N/A |
| P.P-DDD | NG/L | 5.0 | N/A |
| O,P-DDT | NG/L | 5.0 | 30000 (A1) |
| OXYCHLORDANE | NG/L | 2.0 | N/A |
| PCB | NG/L | 20.0 | 3000 (A2) |
| PPODE | NG/L | 1.0 | 30000 (A1) |
| PPDDT | NG/L | 5.0 50.0 | 30000 (A1) 52500 (D3) |
| PROMETONE PROMETRYNE | NG/L NG/L | 50.0 | 1000 (A2) |
| PROPAZINE | NG/L | 50.0 | 700000 (D3) |
| SIMAZINE | NG/L | 50.0 | 10000 (A2) |
| D-ETHYL SIMAZINE | NG/L | 200.0 | 10000 (A2) |
| TOXAPHENE | NG/L | 500.0 | 5000 (A1) |
| | | | |
| PHENOLICS | | | |
| PHENOLICS (UNFILTERED REACTIVE) | UG/L | 0.2 | 2 (A4) |
| SPECIFIC PESTICIDES | | | |
| 2,4 D PROPIONIC ACID | NG/L | 100. | N/A |
| 2,4,5-TRICHLOROPHENOXY ACETIC ACID | NG/L | 50. | 280000 (A1) |
| 2,4-DICHLOROBUTYRIC ACID (2,4-D) | NG/L | 100. | 100000 (A1) |
| 24-DICHLORORPHENOXYBUTYRIC ACID (24-DB) | | 200. | 18000 (B3) |
| BUTYLATE (SUTAN) | NG/L | 2000. | 245000 (D3) |
| CARBARYL (SEVIN) CARBOFURAN | NG/L | 200. 2000. | 90000 (A1) 90000 (A1) |
| CHLORPYRIFOS (DURSBAN) | NG/L NG/L | 2000. | 90000 (A1) |
| CICP (CHLORPROPHAM) | NG/L | 2000. | 350000 (G) |
| DIALLATE | NG/L | 2000. | N/A |
| DIAZINON | NG/L | 20. | 20000 (A1) |
| DICAMBA | NG/L | 50. | 120000 (A1) |
| DICHLOROVOS | NG/L | 20. | N/A |
| EPTAM | NG/L | 2000. | N/A |
| ETHION . | NG/L | 20. | 35000 (G) |
| IPC | NG/L | 2000. | N/A |
| MALATHION METHYL PARATHION | NG/L | 20. 50. | 190000 (A1) |
| METHYLTRITHION | NG/L NG/L | 20. | ·7000 (B3) |
| MEVINPHOS | NG/L | 20. | N/A N/A |
| PARATHION | NG/L | 20. | 50000 (A1) |
| PHORATE (THIMET) | NG/L | 20. | 2000 (A2) |
| PROPOXUR (BAYGON) | NG/L | 2000. | 140000 (D3) |
| RELDAN | NG/L | 20. | N/A |
| RONNEL | NG/L | 20. | N/A |
| SILVEX (2,4,5-TP) | NG/L | 20. | 10000 (A1) |
| VOLATILES | | | |
| 1,1 DICHLOROETHANE | UG/L | 0.10 | N/A |
| 1,1 DICHLOROETHYLENE | UG/L | 0.10 | 7 (01) |
| 1,2 DICHLOROBENZENE | UG/L | 0.05 | 200 (A1) |
| 1,2 DICHLOROETHANE | UG/L | 0.05 | 5 (A1) |
| | | | |

| | | DETECTION | |
|---|--------|-----------|-----------|
| SCAN/PARAMETER | UNIT | LIHIT | GUIDELINE |
| 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | **** | ********* | |
| 1,2 DICHLOROPROPANE | UG/L | 0.05 | |
| 1,3 DICHLOROBENZENE | UG/L | | 3750 (03) |
| 1,4 DICHLOROBENZENE | UG/L | 0.10 | |
| 111, TRICHLOROETHANE | UG/L | | 200 (D1) |
| 112 TRICHLOROETHANE | UG/L | 0.05 | |
| 1122 TETRACHLOROETHANE | UG/L | 0.05 | |
| BENZENE | UG/L | 0.05 | |
| BROHOFORM | UG/L | 0.20 | 350 (A1+) |
| CARBON TETRACHLORIDE | UG/L | 0.20 | 5 (A1) |
| CHLOROBENZENE | UG/L | 0.10 | |
| CHLOROD I BROMOMETHANE | UG/L | 0.10 | 350 (A1+) |
| CHLOROFORM | UG/L | 0.10 | 350 (A1+) |
| DICHLOROBROHOHETHANE | UG/L | 0.05 | 350 (A1+) |
| ETHLYENE DIBROHIDE | · UG/L | 0.05 | 50 (D1) |
| ETHYLBENZENE | UG/L | | 2.4 (A3) |
| M-XYLENE | UG/L | 0.10 | 300 (A3*) |
| METHYLENE CHLORIDE | UG/L | 0.50 | 50 (A1) |
| O-XYLENE | UG/L | 0.05 | 300 (A3*) |
| P-XYLENE . | UG/L | 0.10 | 300 (A3*) |
| STYRENE . | UG/L | 0.05 | 100 (D1) |
| TETRACHLOROETHYLENE | UG/L | 0:05 | |
| TRANS 1,2 DICHLOROETHYLENE | UG/L | 0.10 | 70 (D1) |
| TOLUENE | UG/L | 0.05 | 24 (A3) |
| TOTAL TRIHALOMETHANES | UG/L | 0.50 | 350 (A1) |
| TRICHLOROETHYLENE | UG/L | 0.10 | 50 (A1) |

DRINKING WATER SURVEILLANCE PROGRAM PROGRAM DESCRIPTION

The Drinking Water Surveillance Program (DWSP) for Ontario monitors drinking water quality at municipal water supply systems. The DWSP Database Management System provides a computerized drinking water quality information system for the supplies monitored. The objectives of the program are to provide:

- immediate, reliable, current information on drinking water quality;
- a flagging mechanism for guideline exceedance;
- a definition of contaminant levels and trends;
- a comprehensive background for remedial action;
- a framework for assessment of new contaminants; and
- an indication of treatment efficiency of plant processes.

PROGRAM

The DWSP officially began in April 1986 and is designed to eventually include all municipal water supplies in Ontario. In 1990, 76 systems were being monitored. Water supply locations have been prioritized for surveillance based primarily on criteria such as population density, probability of contamination and geographical location.

An ongoing assessment of future monitoring requirements at each location will be made. Monitoring will continue at the initial locations at an appropriate level and further locations will be phased into the program as resources permit.

A major goal of the program is to collect valid water quality data in context with plant operational characteristics at the time of sampling. As soon as sufficient data have been accumulated and analyzed, both the frequency of sampling and the range of parameters may be adjusted accordingly.

Assessments are carried out at all locations prior to initial sampling, in order to acquire complete plant process and distribution system details and to designate (and retrofit if necessary) all sampling systems and locations. This ensures that the sampled water is a reflection of the water itself.

Samples are taken of raw (ambient water) and treated water at the treatment plant and of consumer's tap water in the distribution system. In order to determine possible effects of distribution on water quality,

both standing and free flow water in old and new sections of the distribution system are sampled. Sampling is carried out by operational personnel who have been trained in applicable procedures.

Comprehensive standardized procedures and field test kits are supplied to sampling personnel. This ensures that samples are taken and handled according to standard protocols and that field testing will supply reliable data. All field and laboratory analyses are carried out using "approved documented procedures". Most laboratory analyses are carried out by the Ministry of Environment (MOE), Laboratory Services Branch. Radionuclides are analyzed by the Ministry of Labour.

DATA REPORTING MECHANISM

When the analytical results are transferred from the MOE laboratory into the DWSP system, printouts of the completed analyses are sent to the MOE District Officer, the appropriate operational staff and are also retained by the DWSP unit.

PROGRAM INPUTS AND OUTPUTS

There are four major inputs and four major outputs in the program.

Program Input - Plant and Distribution System Description

The system description includes plant specific non-analytical information acquired through a questionnaire and an initial plant visit. During the initial assessment of the plant and distribution system, questionnaire content is verified and missing information added. It is intended that all data be kept current with scheduled annual updates.

The Plant and Distribution System Description consists of the following seven components:

1. PROCESS COMPONENT INVENTORY

All physical and chemical processes to which the water is subjected, from the intake pipe to the consumers' tap (where possible), are documented. These include: process type, general description of physical structures, material types, sizes, and retention time for each process within the plant. The processes may be as simple as transmission or as complex as carbon adsorption.

2. TREATMENT CHEMICALS

Chemicals used in the treatment processes, their function, application point, supplier and brand-name are recorded. Chemical dosages applied on the day of sampling are recorded in DWSP.

3. PROCESS CONTROL MEASUREMENTS

Documentation of in-plant monitoring of process parameters (eg. turbidity, chlorine residuals, pH, aluminum residuals) including methods used, monitoring locations and frequency is contained in this section. Except for the recorded Field Data, in-plant monitoring results are not retained in DWSP but are retained by the water treatment plant personnel.

4. DESIGN FLOW AND RETENTION TIME

Hydraulic capacity, designed and actual, is noted here. Retention time (the time that a block of water is retained in the plant) is also noted. Maximum, minimum and average flow, as well as a record of the flow rate on the day of sampling, are recorded in DWSP.

5. DISTRIBUTION SYSTEM DESCRIPTION

This area includes the storage and transmission characteristics of the distribution system after the water leaves the plant.

6. SAMPLING SYSTEM

Each plant is assessed for its adequacy in terms of the sampling of bacteriological, organic and inorganic parameters. Prime considerations in the assessment and design of the sampling system are:

- i/ the sample is an accurate representation of the actual water condition, eg. raw water has had no chemical treatment;
- ii/ the water being sampled is not being modified by the sampling system;
- iii/ the sample tap must be in a clean area of the plant, preferably a lab area; and
- iv/ the sample lines must be organically inert (no plastic, ideally stainless steel).

It is imperative that the sampled water be a reflection not of the sampling system but of the water itself.

The sampling system documentation includes: origin of the water; date sampling was initiated; size, length and material type (intake, discharge and tap); pump characteristics (model, type, capacity); and flow rate.

7. PERSONNEL

This section contains the names, addresses and phone numbers of current plant management and operational staff, distribution system management and operational staff, Medical Officer of Health and appropriate MOE personnel associated with the plant.

Program Input - Field Data

The second major input to DWSP is field data. Field data is collected at the plant and from the distribution system sites on the day of sampling. Field data consists of general operating conditions and the results of testing for field parameters. General operating conditions include chemicals used, dosages, flow and retention time on the day of sampling, as well as, monthly maximum, minimum and average flows. Field parameters include turbidity, chlorine residuals (free, combined and total), temperature and pH. These parameters are analyzed according to standardized DWSP protocols to allow for interplant comparison.

Program Input - Laboratory Analytical Data

The third major input to DWSP is Laboratory Analytical Data. Samples gathered from the raw, treated and distribution sampling sites are analyzed for the presence of approximately 180 parameters at a frequency of two to twelve times per year. Sixty-five percent of the parameters are organic. Parameters measured may have health or aesthetic implications when present in drinking water. Many of the parameters may be used in the treatment process or may be treatment by-products. Due to the nature of certain analytical instruments, parameters may be measured in a "scan" producing some results for parameters that are not on the DWSP priority list, but which may be of interest. The majority of parameters are measured on a routine basis. Those that are technically more difficult and/or costly to analyze, however, are done less frequently. These include Specific Pesticides and Chlorophenols.

Although the parameter list is extensive, additional parameters with the potential to cause health or aesthetic related problems may be added provided reliable analytical and sampling methods exist.

All laboratory generated data is derived from standardized, documented analytical protocols. The analytical method is an integral part of the data and as methods change, notation will be made and comparison data documented.

Program Input - Parameter Reference Information

The fourth major input to DWSP is Parameter Reference Information. This is a catalogue of information for each substance analyzed on DWSP. It includes parameter name and aliases, physical and chemical properties, basic toxicology, world-wide health limits, treatment methods and uses. The Parameter Reference Information is computerized and can be accessed through the Query function of the DWSP database. An example is shown in figure 1.

Program output - Query

All DWSP information is easily accessed through the Query function, therefore, anything from addresses of plant personnel to complete water quality information for a plant's water supply is instantly available. The DWSP computer system makes relatively complex inquiries manageable. A personal password allowing access into the DWSP query mode in all MOE offices is being developed by the DWSP group.

Program Output - Action Alerts

Drinking Water quality in Ontario is evaluated against provincial objectives as outlined in the Ontario Drinking Water Objectives publication. Should the reported level of a substance in treated water exceed the Ontario Drinking Water Objective, an "Action Alert" requiring resampling and confirmation is issued. This assures that operational staff, health authorities and the public are notified as soon as possible of the confirmation of an exceedance and remedial action taken. This report supplies a history of the occurrence of past exceedances at the plant plus a historical summary on the parameter of concern.

In the absence of Ontario Drinking Water Objectives, guidelines/limits from other agencies are used. The Parameter Listing System, published by MOE (ISBN 0-7729-4461-X), catalogues and keeps current guidelines for 650 parameters from agencies throughout the world. If these guidelines are exceeded, the results are flagged and evaluated by DWSP personnel. An "Action Alert" will be issued if warranted.

Program Output - Report Generation

Custom reports can be generated from DWSP to meet MOE Regional needs and to respond to public requests.

Program Output - Annual Reports

It is the practice of DWSP to produce an annual report containing analytical data along with companion plant information.

MOE - DRINKING WATER ASSESSMENT PROGRAM (DWSP)

PARAMETER REFERENCE INFORMATION

| CLASS: | HEALTH | метно | D: POCODO | UNIT: µg/L | | |
|--------|--------|-------|-----------|------------|------|------------|
| SOURCE | FROM | TO | METHOD | GUIDELINE | UNIT | NOTE |
| CAL C | 85/01 | | | 0.700 | μg/L | AL |
| CDWG C | 87/01 | | | 5.000 | μg/L | MAC |
| EPA C | 87/07 | | | 5.000 | μg/L | MCL |
| EPAA C | 80/11 | | | 6.600 | μg/L | AMBIENT ** |
| FERC C | 84/05 | | | 1.000 | μg/L | MCL |
| WHO C | 84/01 | | | 10.000 | μg/L | GV |

DESCRIPTION: NAME: BENZENE
CAS#: 71-43-2

(B2001P)

BENZENE

MOLECULAR FORMULAE: C6H6

DETECTION LIMIT: (FOR METHOD POCODO) 0.05 µg/L

SYNONYMS: BENZOL; BENZOLE; COAL NAPHTHA; CARBON OIL (27).

CYCLOHEXATRIENE (41).

CHARACTERISTICS: COLOURLESS TO LIGHT-YELLOW, MOBILE, NON-POLAR LIQUID, OF HIGHLY REFRACTIVE NATURE, AROMATIC ODOUR; VAPOURS BURN WITH SMOKING FLAME

(30).

PROPERTIES: SOLUBILITY IN WATER: 1780-1800 mg/L AT 25C (41).

THRESHOLD ODOUR: 0.5 - 10 PPM IN WATERTHRESHOLD TASTE:

0.5 mg/L IN WATER (39).

ENVIRONMENTAL FATE: MAY BIOACCUMULATE IN LIVING ORGANISMS AND APPEARS TO ACCUMULATE IN ANIMAL TISSUES THAT EXHIBIT A HIGH LIPID CONTENT OR REPRESENT MAJOR METABOLIC SITES, SUCH AS LIVER OR BRAIN; SMALL QUANTITIES EVAPORATE FROM SOILS OR ARE DEGRADED RATHER QUICKLY (80).

VOLATILES

SOURCES: COMMERCIAL: PETROLEUM REFINING; SOLVENT RECOVERY;
COAL TAR DISTILLATION (39); FOOD PROCESSING AND
TANNING INDUSTRIES; COMBUSTION OF CAR EXHAUST.
ENVIRONMENTAL: POSSIBLE SOURCE IS RUNOFF.

USES: DETERGENTS; NYLON; INTERMEDIATE IN PRODUCTION OF OTHER COMPOUNDS, SUCH AS PESTICIDES; SOLVENT FOR EXTRACTION AND RECTIFICATION IN RUBBER INDUSTRY; DEGREASING AND CLEANSING AGENT; GASOLINE.

TOXICITY: RATING: 4 (VERY TOXIC).

ACUTE: IRRITATING TO MUCOUS MEMBRANES; SYMPTOMS INCLUDE RESTLESSNESS, CONVULSIONS, EXCITEMENT, DEPRESSION; DEATH MAY FOLLOW RESPIRATORY FAILURE. CHRONIC: MAY CAUSE ANAEMIA AND LEUKAEMIA (45); MUTAGENIC.

MODE OF ACTION: CHROMOABERRATION IN LYMPHOCYTE CULTURES.

CARCINOGENICITY: A KNOWN HUMAN CARCINOGEN.

REMOVAL: THE FOLLOWING PROCESSES HAVE BEEN SUCCESSFUL IN REMOVING BENZENE FROM WASTEWATER: GAC ADSORPTION, PRECIPITATION WITH ALUM AND SUBSEQUENT REMOVAL VIA SEDIMENTATION, COAGULATION AND FLOCCULATION, SOLVENT EXTRACTION, OXIDATION

ADDITIONAL PROPERTIES:

MOLECULAR WEIGHT: 78.12 MELTING POINT: 5.5°C (27). BOILING POINT: 80.1°C (27).

SPECIFIC GRAVITY: 0.8790 AT 20°C (27). VAPOUR PRESSURE: 100 MM AT 26.1°C (27).

HENRY'S LAW CONSTANT: 0.00555 ATM-M3/MOLE (41). LOG OCT./WATER PARTITION COEFFICIENT: 1.95 TO 2.13 (39).

CARBON ADSORPTION: K=1.0; 1/N=1.6; R=0.97; PH=5.3 (41) SEDIMENT/WATER PARTITION COEFFICIENT: NO DATA

NOTES: EPA PRIORITY POLLUTANT.

DWSP SAMPLING GUIDELINE

i) Raw and Treated at Plant

-500 mL plastic bottle (PET 500) General Chemistry

-rinse bottle and cap with sample

water three times -fill to 2 cm from top

-220 mL plastic bottle with white Bacteriological

seal on cap

-do not rinse bottle, preservative

has been added

-avoid touching bottle neck or

inside of cap

-fill to top of red label as marked

Metals -500 mL plastic bottle (PET 500)

-rinse bottle and cap three times

-fill to 2 cm from top

-add 10 drops nitric acid (HNO2) (Caution: HNO2 is corrosive)

Volatiles (duplicates)

(OPOPUP)

-45 mL glass vial with septum

(teflon side must be in contact with

sample)

-do not rinse bottle

-fill bottle completely without

bubbles

Organics

(OWOC), (OWTRI), (OAPAHX)

-1 L amber glass bottle per scan

-do not rinse bottle

-fill to 2 cm from top

-when 'special pesticides' are

requested three extra bottles

must be filled

-500 mL plastic bottle (PET 500)

-rinse bottle and cap three times

-fill to 2 cm from top

-add 10 drops sodium hydroxide (NaOH)

(Caution: NaOH is corrosive)

Cyanide

Mercury -250 mL glass bottle

-rinse bottle and cap three times

-fill to top of label

-add 20 drops each nitric acid (HNO₃)
and potassium dichromate (K₂Cr₂O₇)
(Caution: HNO₃&K₂Cr₂O₇ are corrosive)

Phenols -250 mL glass bottle

-do not rinse bottle, preservative

has been added

-fill to top of label

Radionuclides -4 L plastic jug

(as scheduled) -do <u>not</u> rinse, carrier added

-fill to 5 cm from top

Organic Characterization -1 L amber glass bottle; instructions

(GC/MS - once per year) as per organic

-250 mL glass bottle -do <u>not</u> rinse bottle

-fill completely without bubbles

Steps:

- Let sampling water tap run for an adequate time to clear the sample line.
- 2. Record time of day on submission sheet.
- 3. Record temperature on submission sheet.
- 4. Fill up all bottles as per instructions.
- Record chlorine residuals (free, combined and total for treated water only), turbidity and pH on submission sheet.

ii) Distribution Samples (standing water)

General Chemistry -500 mL plastic bottle (PET 500)

-rinse bottle and cap with sample

water three times
-fill to 2 cm from top

Metals -500 mL plastic bottle (PET 500)

-rinse bottle and cap three times

-fill to 2 cm from top
-add 10 drops nitric acid (HNO₃)
(Caution: HNO₃ is corrosive)

Steps:

- 1. Record time of day on submission sheet.
- 2. Place bucket under tap and open cold water.
- 3. Fill to predetermined volume.
- After mixing the water, record the temperature on the submission sheet.
- 5. Fill general chemistry and metals bottles.
- Record chlorine residuals (free, combined and total), turbidity and pH on submission sheet.

iii) Distribution Samples (free flow)

| General Chemistry | -500 mL plastic bottle (PET 500) |
|-------------------|-----------------------------------|
| | -rinse bottle and cap with sample |
| | water three times |
| | -fill to 2 cm from top |

| Bacteriological | -250 mL plastic bottle with |
|-----------------|---|
| | white seal on cap |
| | -do <u>not</u> rinse bottle, preservative |
| | has been added |
| | -avoid touching bottle neck or |
| | inside of cap |
| | -fill to top of red label as marked |

| Metals | -500 mL plastic bottle (PET 500) |
|--------|-----------------------------------|
| | -rinse bottle and cap three times |
| | -fill to 2 cm from top |
| | -add 10 drops nitric acid HNO3 |
| | (Caution: HNO3 is corrosive) |

Volatiles (duplicate) (OPOPUP)

-45 mL glass vial with septum (teflon side must be in contact with sample)

-do not rinse bottle, preservative
has been added

-fill bottle completely without bubbles

Organics (OWOC) (OAPAHX) -1 L amber glass bottle per scan -do <u>not</u> rinse bottle -fill to 2 cm from top

Steps:

- 1. Record time of day on submission sheet.
- 2. Let cold water flow for five minutes.
- 3. Record temperature on submission sheet.
- 4. Fill all bottles as per instructions.
- Record chlorine residuals (free, combined and total), turbidity and pH on submission sheet.

